

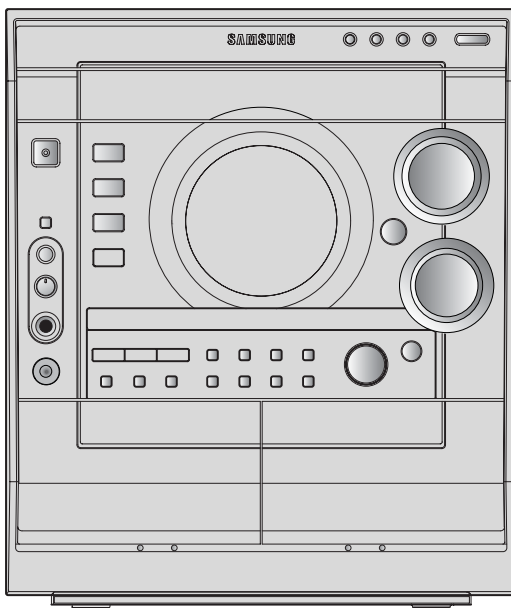


MINI COMPONENT SYSTEM

BASIC MODEL: MAX-C670

SERVICE Manual

MINI COMPONENT SYSTEM



MODEL : MAX-C670

Features

- * MP3-CD/ CD-R/ RW Playback
- * 3 DISC Changer
- * Tuner
- * Tape Deck

- Confidential -

Notice !!

You can search for the updated part code through ITSELF web site.
URL; <http://itself.sec.samsung.co.kr>



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1. Precautions

Follow these safety, servicing and ESD precautions to prevent damage and protect against potential hazards such as electrical shock and X-rays.

1-1 Safety Precautions

1. Be sure that all of the built-in protective devices are replaced.
2. When reinstalling the chassis and its assemblies, be sure to restore all protective devices, including control knobs and compartment covers.
3. Make sure that there are no cabinet openings through which people--particularly children--might insert fingers and contact dangerous voltages. Such openings include the spacing between the picture tube and the cabinet mask, excessively wide cabinet ventilation slots, and improperly fitted back covers.
4. Design Alteration Warning:
Never alter or add to the mechanical or electrical design of the unit. Example: Do not add auxiliary audio or video connectors. Such alterations might create a safety hazard. Also, any design changes or additions will void the manufacturer's warranty.
5. Leakage Current Hot Check (Figure 1-1):
Warning: Do not use an isolation transformer during this test. Use a leakage-current tester or a metering system that complies with American National Standards Institute (ANSI C101.1, *Leakage Current for Appliances*), and Underwriters Laboratories (*UL Publication UL1410, 59.7*).

With the unit completely reassembled, plug the AC line cord directly into a 120V AC outlet. With the unit's AC switch first in the ON position and then OFF, measure the current between a known earth ground (metal water pipe, etc.) and all exposed metal parts. Examples: Handle brackets, metal cabinets, screwheads and control shafts. The current measured should not exceed 0.5 milliamp. Reverse the power-plug prongs in the AC outlet and repeat.

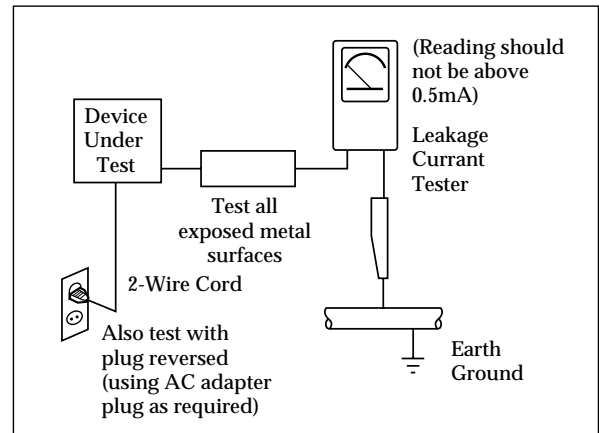


Fig. 1-1 AC Leakage Test

6. Insulation Resistance Cold Check:
(1) With the unit's AC plug disconnected from the AC source, connect an electrical jumper across the two AC prongs. (2) Set the power switch to ON. (3) Measure the resistance between the shorted AC plug and any exposed metallic parts. Example: Screwheads, antenna, control shafts or handle brackets.

If any of the exposed metallic parts has a return path to the chassis, the measured resistance should be between 1 and 5.2 megohms. If there is no return path, the measured resistance should be "infinite." If the resistance is outside these limits, a shock hazard might exist. See Figure 1-2

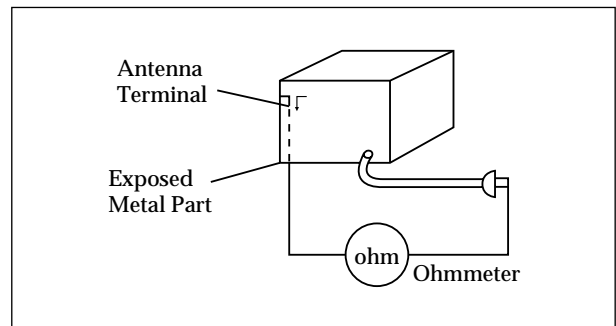


Fig. 1-2 Insulation Resistance Test

1-1 Safety Precautions (Continued)

7. Components, parts and wiring that appear to have overheated or that are otherwise damaged should be replaced with parts that meet the original specifications. Always determine the cause of damage or overheating, and correct any potential hazards
8. Observe the original lead dress, especially near the following areas: Antenna wiring, sharp edges, and especially the AC and high voltage power supplies. Always inspect for pinched, out-of-place, or frayed wiring. Do not change the spacing between components and the printed circuit board. Check the AC power cord for damage. Make sure that no wires or components touch thermally hot parts.
9. **Product Safety Notice:**
Some electrical and mechanical parts have special safety-related characteristics which might not be obvious from visual inspection. These safety features and the protection they give might be lost if the replacement component differs from the original--even if the replacement is rated for higher voltage, wattage, etc.
- 10 Components that are critical for safety are indicated in the circuit diagram by shading, ⚠ or ⚡ . Use replacement components that have the same ratings, especially for flame resistance and dielectric strength specifications. A replacement part that does not have the same safety characteristics as the original might create shock, fire or other hazards.

1-2 Servicing Precautions

Warning1: First read the "Safety Precautions" section of this manual. If some unforeseen circumstance creates a conflict between the servicing and safety precautions, always follow the safety precautions.

1. Servicing precautions are printed on the cabinet. Follow them.
2. Always unplug the unit's AC power cord from the AC power source before attempting to: (a) Remove or reinstall any component or assembly, (b) Disconnect an electrical plug or connector, (c) Connect a test component in parallel with an electrolytic capacitor.
3. Some components are raised above the printed circuit board for safety. An insulation tube or tape is sometimes used. The internal wiring may be clamped to prevent contact with thermally hot components. Reinstall all such elements to their original position.
4. After servicing, always check that the screws, components and wiring have been correctly reinstalled. Make sure that the portion around the serviced part has not been damaged.
5. Check the insulation between the blades of the AC plug and accessible conductive parts (examples: metal panels, input terminals and earphone jacks).
6. **Insulation Checking Procedure:** Disconnect the power cord from the AC source and turn the power switch ON. Connect an insulation resistance meter (500V) to the blades of the AC plug.

The insulation resistance between each blade of the AC plug and accessible conductive parts (see above) should be greater than 1 megohm.
7. Never defeat any of the B+ voltage interlocks. Do not apply AC power to the unit (or any of its assemblies) unless all solid-state heat sinks are correctly installed.
8. Always connect a test instrument's ground lead to the instrument chassis ground *before* connecting the positive lead; always remove the instrument's ground lead last.

1-3 Precautions for Electrostatically Sensitive Devices (ESDs)

1. Some semiconductor ("solid state") devices are easily damaged by static electricity. Such components are called Electrostatically Sensitive Devices (ESDs). Examples include integrated circuits and some field-effect transistors. The following techniques will reduce the occurrence of component damage caused by static electricity.
2. Immediately before handling any semiconductor components or assemblies, drain the electrostatic charge from your body by touching a known earth ground. Alternatively, wear a discharging wrist-strap device. (Be sure to remove it prior to applying power--this is an electric shock precaution.)
3. After removing an ESD-equipped assembly, place it on a conductive surface such as aluminum foil to prevent accumulation of electrostatic charge.
4. Do not use freon-propelled chemicals. These can generate electrical charges that damage ESDs.
5. Use only a grounded-tip soldering iron when soldering or unsoldering ESDs.
6. Use only an anti-static solder removal device. Many solder removal devices are not rated as "anti-static" (these can accumulate sufficient electrical charge to damage ESDs).
7. Do not remove a replacement ESD from its protective package until you are ready to install it. Most replacement ESDs are packaged with leads that are electrically shorted together by conductive foam, aluminum foil or other conductive materials.
8. Immediately before removing the protective material from the leads of a replacement ESD, touch the protective material to the chassis or circuit assembly into which the device will be installed.
9. Minimize body motions when handing unpackaged replacement ESDs. Motions such as brushing clothes together, or lifting a foot from a carpeted floor can generate enough static electricity to damage an ESD.

1-4 Special Precautions and Warning Labels for Laser Products

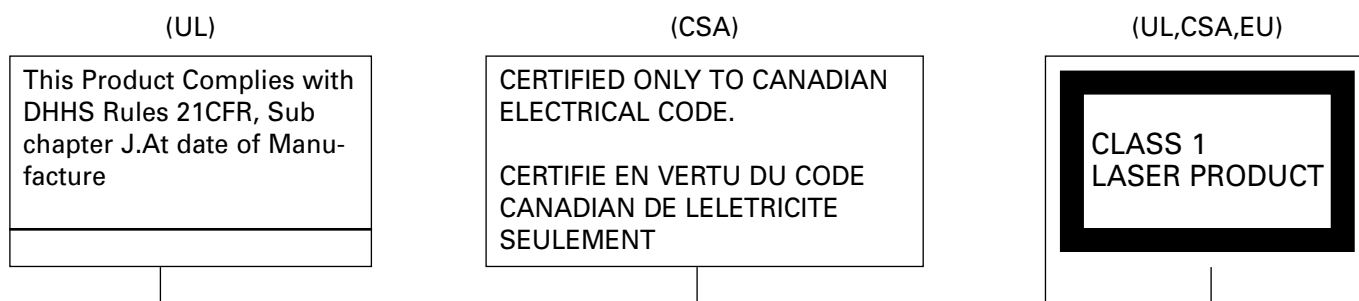


Fig. 1-3 Warning Labels (Location: Enclosure Block)

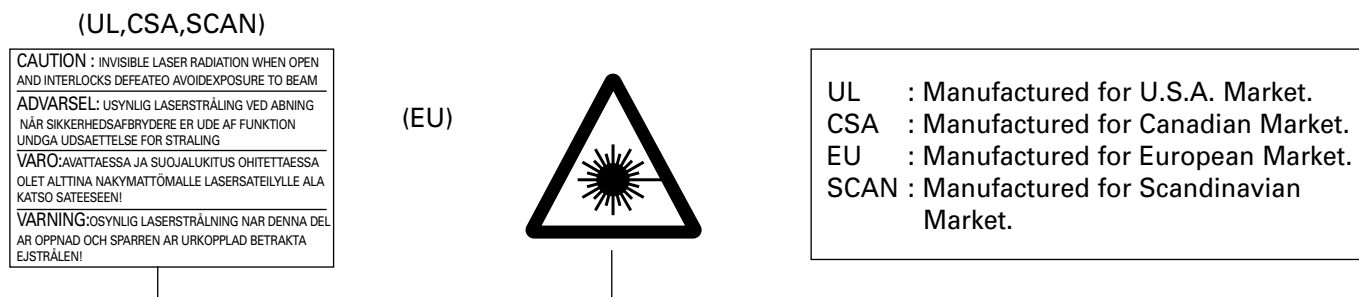


Fig. 1-4 Warning Labels (Location: Disc Clamper, Inner Side of Unit Door or Nearby Unit Chassis)

1-4 Special Precautions and Warning Labels for Laser Products (Continued)

1-4-1 Warnings

1. When servicing, do not approach the LASER exit with the eye too closely. In case it is necessary to confirm LASER beam emission, be sure to observe from a distance of more than 30 cm from the surface of the objective lens on the optical pick-up block.
2. Do not attempt to handle the objective lens when the DISC is not on the tray.

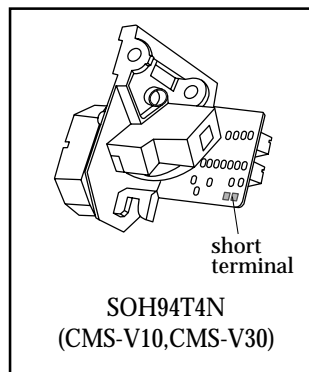
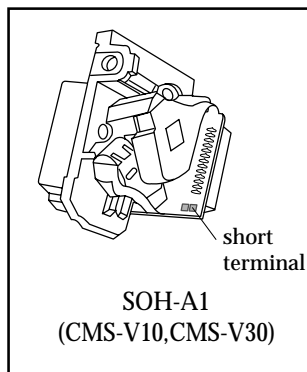
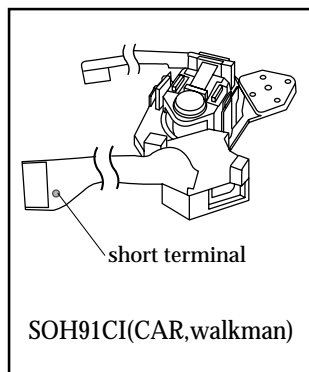
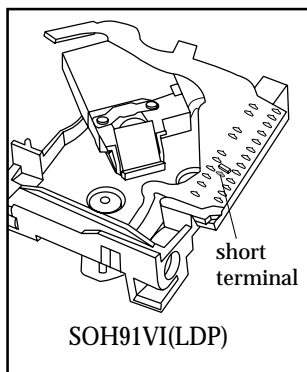
1-4-2 Laser Diode Specifications

Material: GaAs+ GaAlAs

Wavelength: 760-800 nm

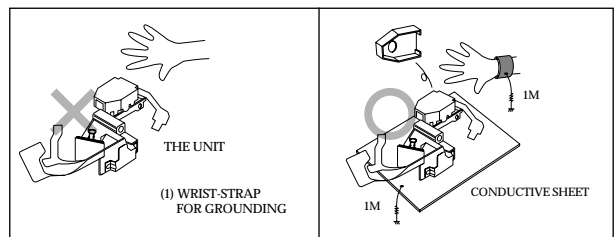
Emission Duration: Continuous

Laser Output: 0.2 mw (measured at a 1.6 mm distance from the objective lens surface on the optical pick-up block.)



1-4-3 Handling the Optical Pick-up

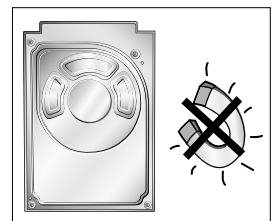
1. Static electricity from clothing or the body may cause electrostatic breakdown of the laser diode in the Optical Pickup. Follow this procedure:
2. Place a conductive sheet on the work bench (i.e., the black sheet used for wrapping repair parts.) Note: The surface of the work bench should be covered by a copper ground plane, which is grounded.
3. The repair technician must wear a wrist strap which is grounded to the copper sheet.
4. To remove the Optical Pickup block: Place the set on the conductive sheet, and momentarily touch the conductive sheet with both hands. (While working, do not allow any electrostatic sources--such as clothes--to touch the unit.)
5. Ground the "Short Terminal" (located on the PCB, inside the Pickup Assembly) before replacing the Pickup. This terminal should be shorted whenever the Pickup Assembly is lifted or moved.
6. After replacing the Pickup, reopen the Short Terminal. See diagrams below:



1-5 Special Precautions for HDD

* HDD Data Maintenance Step

1. Since the data on the HDD is weak to mechanical shock, place the HDD in a safe location that is free from mechanical shock once it is removed from the main unit.
2. In order to safe keep the data on the HDD, back up the data before the repair or make sure not to place the HDD near any electrical appliance that generates a strong magnetic field.



2. Product Description

1. Specifications

RADIO

SW(OPTION)

Usable sensitivity	40 dB
--------------------	-------

AM (MW)

Signal/noise ratio	40 dB
--------------------	-------

Usable sensitivity	60 dB
--------------------	-------

Total harmonic distortion	2 %
---------------------------	-----

FM

Signal/noise ratio	55 dB
--------------------	-------

Usable sensitivity	10 dB
--------------------	-------

Total harmonic distortion	0.6 %
---------------------------	-------

COMPACT DISC PLAYER

Capacity	3 discs
----------	---------

Frequency range	20 Hz - 20 KHz (± 1 dB)
-----------------	------------------------------

Signal/noise ratio	85 dB (at 1 KHz) with filter
--------------------	------------------------------

Distortion	0.05 % (at 1 KHz)
------------	-------------------

Channel separation	75 dB
--------------------	-------

Disc sizes	Diameter: 120 or 80 mm. Thickness: 1.2 mm
------------	---

TAPE DECK

Frequency range	125 Hz ~ 10 KHz
-----------------	-----------------

Signal/noise ratio	40 dB
--------------------	-------

Channel separation	30 dB
--------------------	-------

Erasing effect	50 dB(without filter)
----------------	-----------------------

AMPLIFIER

Output power

Speaker(6 Ω)	130 Watts/CH RMS,IEC (total harmonic distortion: 10 %)
----------------------	--

Channel separation	40 dB
--------------------	-------

Signal/noise ratio	75 dB
--------------------	-------

GENERAL

Dimensions	270 (D) x 332 (H) x 426 (W) mm
------------	--------------------------------

2. Notes on discs

Disc Recording Format

CD-R Discs

- Some CD-R discs may not be playable depending on the disc recording device (CD-Recorder or PC) and the condition of the disc.
- Use a 650MB/74 minute CD-R disc.
Do not use CD-R disk over 700MB/80 minute as much as possible since it may not be played back.
- Some CD-RW (Rewritable) media, may not be playable.
- Only CD-Rs that are properly "closed" can be fully played. If the session is closed but the disc is left open, you may not be able to fully play the disc.

CD-R MP3 Discs

- Only CD-R discs with MP3 files in ISO 9660 or Joliet format can be played.
- MP3 file names should be 8 characters or less in length and contain no blank spaces or special characters (. / = +).
- Use discs recorded with a compression/decompression data rate greater than 128Kbps.
- Only files with the ".mp3" and ".MP3" extensions can be played.
- Only a consecutively written Multisession disc can be played. If there is a blank segment in the Multisession disc, the disc can be played only up to the blank segment.
- If the disc is not closed, it will take longer to begin playback and not all of the recorded files may be played.
- For files encoded in Variable Bit Rate (VBR) format, i.e. files encoded in both low bit rate and high bit rate (e.g., 32Kbps ~ 320Kbps), the sound may skip during playback.
- A maximum of 500 tracks can be played per CD.
- A maximum of 300 folders can be played per CD.

CD-R JPEG Discs

- Only files with the ".jpeg" and ".JPEG" extensions can be played.
- If the disc is not closed, it will take longer to start playing and not all of the recorded files may be played.
- Only CD-R discs with JPEG files in ISO 9660 or Joliet format can be played.
- JPEG file names should be 8 characters or less in length and contain no blank spaces or special characters (. / = +).
- Only a consecutively written multisession disc can be played. If there is a blank segment in the multisession disc, the disc can be played only up to the blank segment.
- A maximum of 9,999 images can be stored on a single CD.
- When playing a Kodak/Fuji Picture CD, only the JPEG files in the picture folder can be played.
- Picture discs other than Kodak/Fuji Picture CDs may take longer to start playing or may not play at all.

3. Accessories

Code no.	Description & Specification	Remarks
AH39-00320C	CBF COAXIAL CABLE	110REC,1007#
AH40-00087A	TUNER-FM/AM	MJ104MA1-55C,FM,AM
AH42-00019A	ANT LOOP	S0160BL-16,9uH,-,1KH
AH59-01159S	REMOCON-ASSY	SAMSUNG,-,28KEY

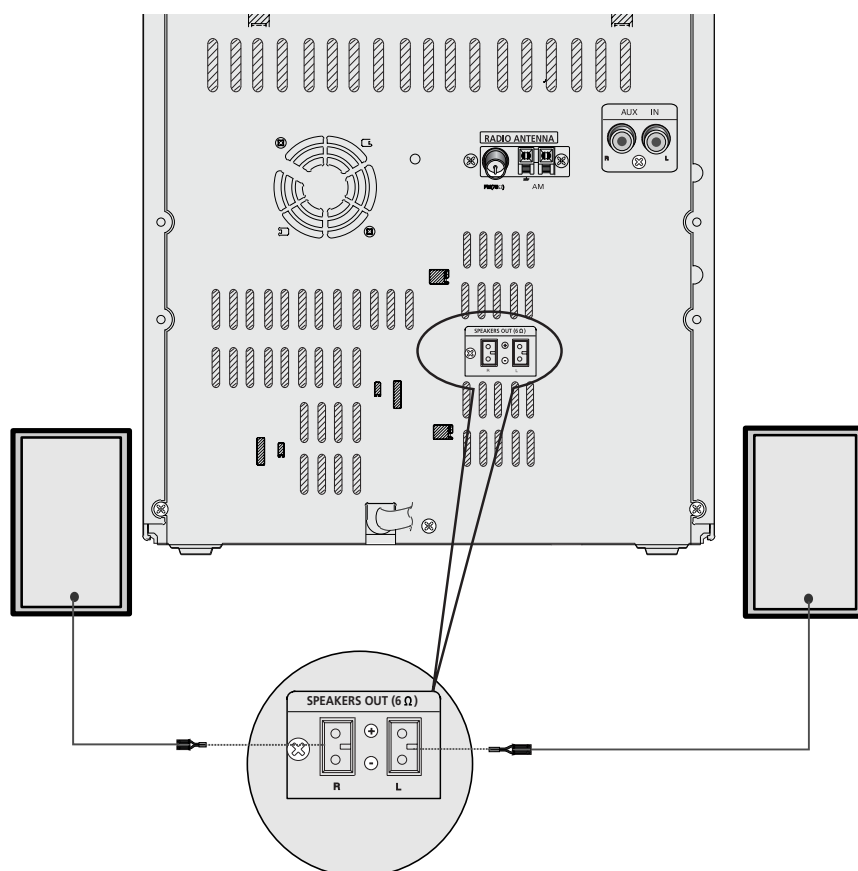
3. Product Functions

1. SPK connection

Connecting the Loudspeakers

Connect the connecting jacks (2) to the back of mini-compact system.

- ◆ Make sure the polarities (+and -) are correct.
- ◆ Left speaker wire should be connected to mark "L" of the unit back.
Right speaker wire should be connected to mark "R" of the unit back.



● Directions in Installing Speaker

- ◆ Installation in a place near heating apparatus, under direct lay of light or with high humidity may cause performance degradation of the speaker.
- ◆ Do not install on the wall or on a high place of pole or other unstable place to prevent any safety accident caused by falling of the speaker.
- ◆ Do not take the speaker apart from TV or computer monitor.
The speaker near the TV or computer monitor may influence the quality of the screen display.

2. Main Functions

Loading and Changing Compact Discs

The CD disc changer can contain up to three 12 cm or 8 cm compact discs without using an adapter.

- ⚠ Never force the compact disc carousel when opening and closing the compartment.
Never press down or place objects on the carousel.
- Always treat your compact discs with care; refer, if necessary, to the section entitled "Precautions When Using Compact Discs" on page 24 .

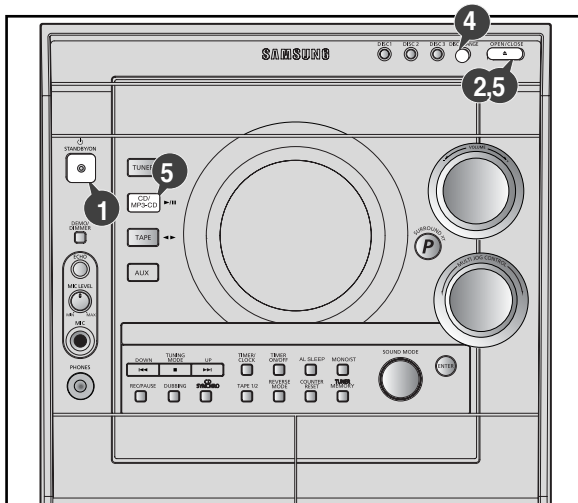
- 1 Switch the system on by pressing **STANDBY/ON**.
- 2 Press the **OPEN/CLOSE** (▲) button on the front panel.
Result: The compartment opens.
- 3 Place one discs in the front slots of the carousel, with the label on the discs facing upwards.
⚠ Check that the compact disc has been correctly inserted in the holder before closing the compartment.
- 4 If you wish to load another compact disc, press the **DISC CHANGE** button on the front panel (or **DISC SKIP** on the remote control).
Result: The carousel rotates by 120°.
- 5 Close the compartment by pressing the **OPEN/CLOSE** (▲) button again.
➤ If you wish to start playing a disc directly, you can also proceed as follows.

To play...	Press...
Disc 1	CD (▶/) or Disc 1
Disc 2	Disc 2
Disc 3	Disc 3

Result: The compartment closes automatically and the disc selected starts playing.

- 6 To change or unload the compact disc changer, repeat Steps 2 to 5.

- ⚠ Keep the compartment closed whenever you are not using it, to prevent dust from entering.
- You can load or unload compact discs when the radio, tape or auxiliary source function is selected.



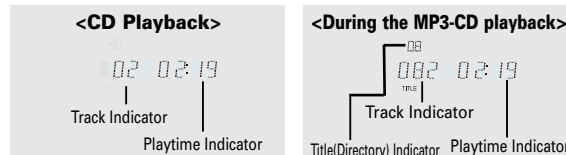
To replay the CD/MP3-CD

This is a player that enables the playback of audio CD, CD-R, CD-RW and MP3-CD and does not possess the function that saves MP3 files.

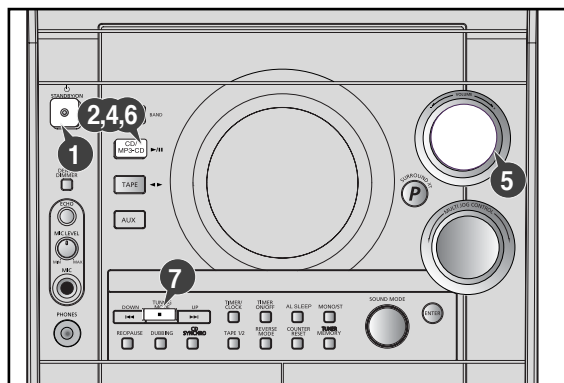
Do not use CDs of irregular shapes like heart or octagon shapes. The performance of the player may be degraded.

At least more than one CD should be inserted for playbacks.

- 1 Press the **STANDBY/ON** button to switch on the power.
- 2 Press the **CD/MP3-CD** (▶/||) of the main unit to select the CD function.
- 3 Insert more than one CD or a MP3-CD.
- 4 Press the **CD/MP3-CD** (▶/||) button of the main unit or the ▶/|| button of the remote control.
➤ If there are more than one CD or an MP3-CD inserted, replays are then processed in order.
➤ Your CD Player will take a few moments to scan through all the tracks recorded on a particular MP3-CD.
➤ The English name of the song may be indicated on the display only if directly downloaded from the PC or if the purchased MP3-CD is sorted according to titles(directory). (Other languages besides English may not be indicated.)
➤ The English name of the track may not be indicated depending on the characteristics of the MP3-CD.



- 5 Adjust the volume according to needs with the following procedures.
➤ Turn the **VOLUME** control of the main unit.
or
➤ Press the **VOLUME +** or **-** button of the remote control.
➤ The volume level can be adjust in 31 steps(VOL MIN,VOL 1-VOL 29,and VOL MAX).
- 6 If it is desired to pause while the playback is processing, press the **CD/MP3-CD** (▶/||) button.
➤ Press the **CD/MP3-CD** (▶/||) button once again to playback again.
- 7 To stop playback, press the ■ button.
➤ A new disc may be inserted in the remaining two compartments excluding the CD which is being played back. Press the **Disc Changer** button to open the CD tray. The revolving part does not turn during playbacks.
➤ If there is not even one CD inserted in the CD tray, it is indicated as "NO DISC".
➤ If the CD Repeat function is not selected, 3 CDs are played back which automatically stops.



Repeating One or All Tracks on the Compact Discs

You can repeat indefinitely:

- ◆ A specific track on a compact disc.
- ◆ All tracks on the compact disc selected.
- ◆ All discs loaded in the carrousel

- To repeat...** Press **CD REPEAT** on the Remote Control or more times until...

The current track indefinitely	REPEAT 1 is displayed
The selected disc	REPEAT 1 CD is displayed
All discs loaded	REPEAT ALL CD is displayed
- When you wish to stop the Repeat function, press **CD REPEAT** until **ALL CD** or **1 CD** is displayed, or press **■**.

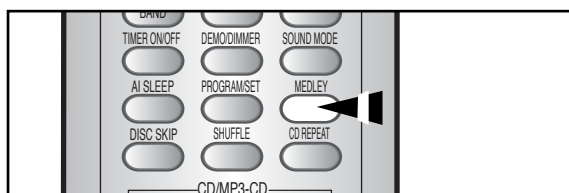


Medley Play

(This function is only available during playback of a CD.)

You can select "MEDLEY ON" and "MEDLEY OFF" during playback of a CD.

- Press the **MEDLEY PLAY** button once.
Result: "MEDLEY" is displayed.
◆ The interval time between the tracks can be shorten.
- Press the **MEDLEY PLAY** button again.
◆ Cancel this function, return to normal playback.

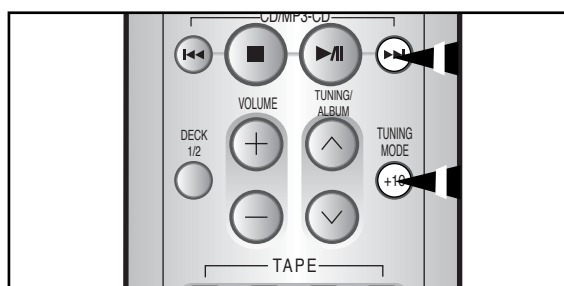


Function to skip through 10 tracks at a time

Press the **+10** button briefly while playing back a CD and MP3-CD. The track 10 tracks after the current one will then be played back.

Example: If you want to select track 43 during playback of track 5, press the **+10** button four times, and then press the **▶▶** button three times.

5 → 10 → 20 → 30 → 40 → 41 → 42 → 43

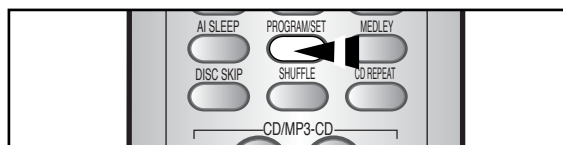


Last Memory Function

(This function is only available during playback of MP3-CD.)

When MP3-CD playback is selected again after your CD player has been stopped or turned off, this function allows playback from the start of the track that you last listened to.

- ◆ Press the **PROGRAM** button while your MP3-CD is being played. The **LAST ON** and **LAST OFF** may be repeatedly selected.



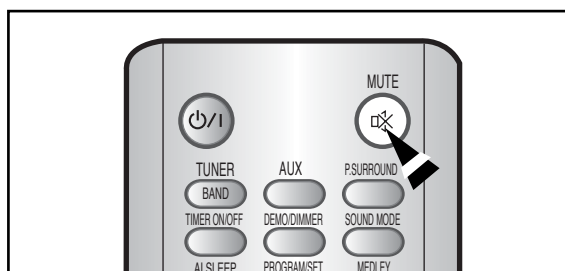
3. New Functions

Mute Function

You can turn the sound off temporarily on your system.

Example: You wish to answer a telephone call.

- 1 Press **MUTE**.
- 2 To switch the sound back on (at the same volume as before), press **MUTE** again or the **VOLUME** buttons.



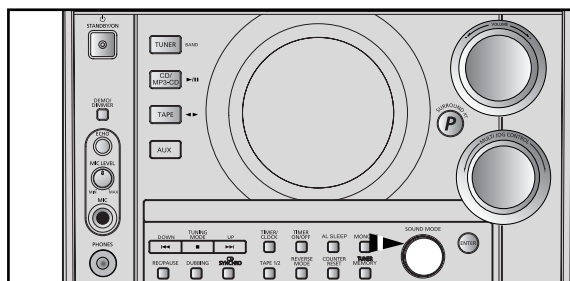
Selecting Sound Mode

Your mini-compact system is equipped with a preset equalizer that allows you to choose the most appropriate balance between treble and bass frequencies, according to the type of music you are listening to.

This model provides D.S.P modes so that you can enjoy virtually original sound.

Turn **SOUND MODE** on the front panel or Press **SOUND MODE** on the remote control until the required option is selected.

To obtain a...	Select...
Normal balance (linear)	PASS
Balance suitable for pop music	POP
Balance suitable for rock music	ROCK
Balance suitable for classic music	CLASSIC
Balance suitable for hall	HALL
Balance suitable for live	LIVE
Balance suitable for cinema	CINEMA



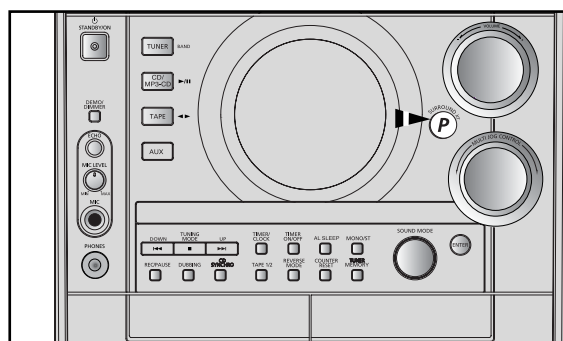
Power Surround/Power Surround XT/Power Sound Function

Your mini-compact system is equipped with the function of Power Surround/Power Surround XT/Power Sound.

The Power Surround replaces conventional stereo sound with a wider and more true-to-life sound. It creates the feeling of being right at the centre of the music and being surrounded by total music sound.

The function of Power Sound amplifies bass and improves high key or bass twice as much for you to appreciate powerful real sound.

- Press **SURROUND XT** button on the front panel until the required option is selected. Each time the **SURROUND XT** button is pressed, "P,SOUND,P,SUR,P,SUR, XT ,OFF" is selected or cancelled in this order.
- The **P. SURROUND** function is not available if plugging the Microphone into **MIC** jack.



4. Adjustments

Cassette Deck

1. To Adjust Tape Speed

Notes

- 1) Measuring tape: i) MTT-111 (or equivalent)
(Tapes recorded with 3kHz)
ii) MTT-5512 (or equivalent)
- 2) Connect the SPK OUT of the MAIN PCB to the frequency counter as in figure 1-5.

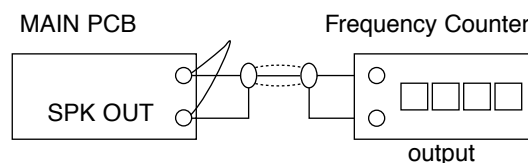


Figure 1-5

Step	Item	Pre-Setup Condition	Pre-Setup	To Adjust	Standard	Remark
1	NOR SPEED Control	SPK OUT (connected to the frequency counter)	1) Deck :MTT-111 2) Press PLAY SW button	Fixed	3KHz	±1% range

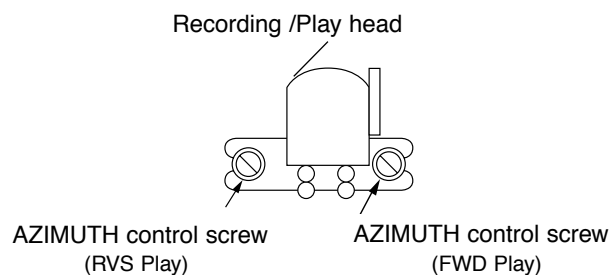


Figure 1-6

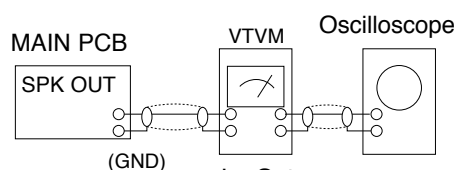


Figure 1-7

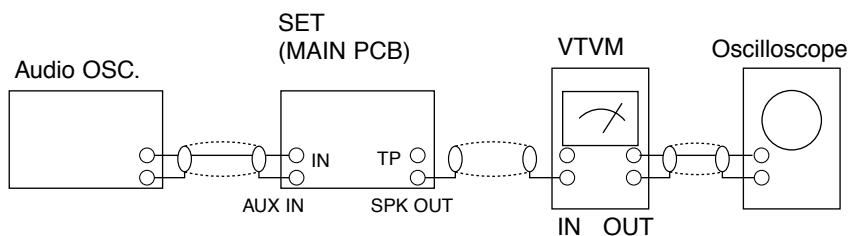


Figure 1-8

2. To Adjust PlayBack Level/REC

Notes

- 1) Before the actual adjustment, clean the play/recording head.
- 2) Measuring tape :
 - i) MTT-114N(or equivalent 10kHz AZIMUTH control)
 - ii) MTT-5512
- 3) The cassette deck is connections as shown in figure 1-7.

1. Adjust Deck 1 Play Level

Step	Item	Pre-Setup Condition	Pre-Setup	To Adjust	Standard	Remark
1	AZIMUTH	SPK OUT (VTVM is connected to the scope)	After putting MTT-114N into Deck 1 - Press FWD PLAY button.	- Turn the control screw to as shown in Figure 1-6.	Max output and same phase (both channels)	After adjustment secure it with REGION LOCK.

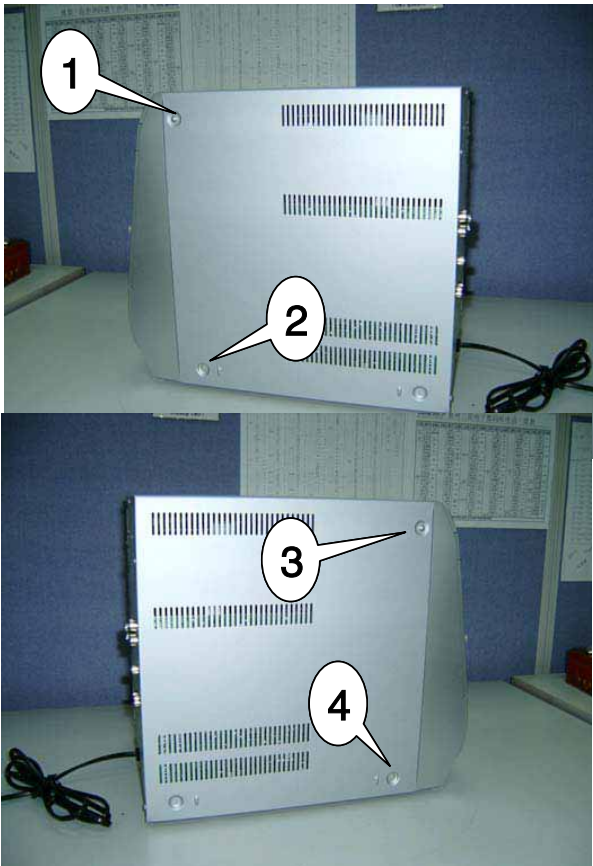
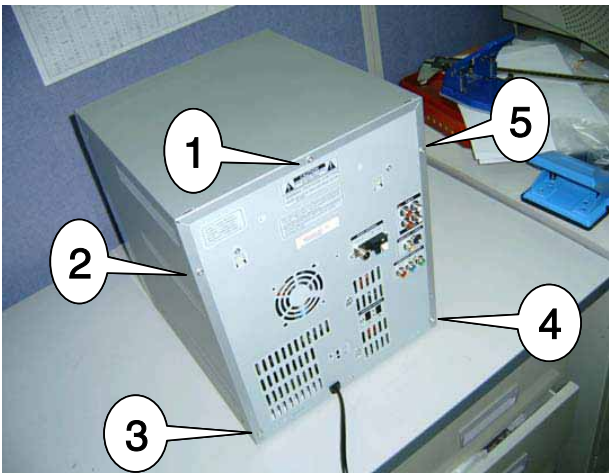
2. Adjust Deck 2 Play Level/ REC BIAS

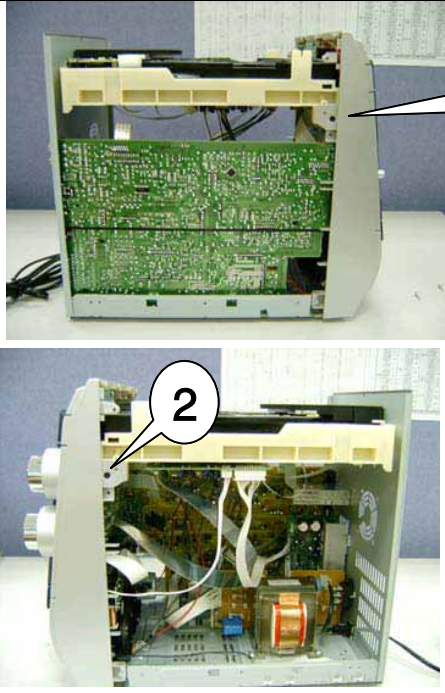

Step	Item	Pre-Setup Condition	Pre-Setup	To Adjust	Standard	Remark
1	AZIMUTH	SPK OUT (VTVM is connected to the scope)	After putting MTT-114N into Deck 2 - Press FWD PLAY button.	- Turn the control screw to as shown in Figure 1-6.	MAX OUTPUT and same phase (both channels)	After adjustment secure it with REGION LOCK.
2	Recording Bias Voltage	Fig 1-8	After putting MTT-5512 into Deck 2 1) Press REC PLAY button. 2) TAPE PCB JCW3, connected to VTVM	- Turn JSR2L, JSR2R to the right and left	CHECK TO 7mV(± 0.5 mV)	

5. How to disassemble

* CAUTIONS

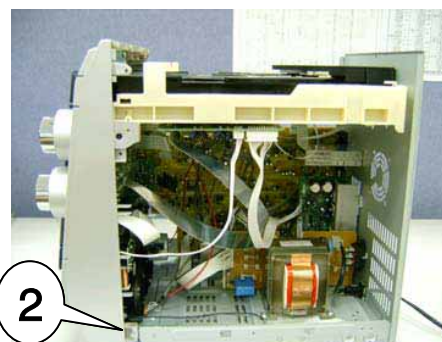
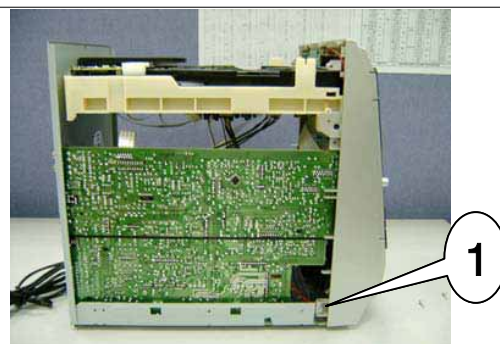
1. To avoid damage to the product, follow the disassembly method in the Service Manual.
2. As some Semiconductor devices are very sensitive to static, ensure that all procedures are adhered to when handling ESD's.

Order(Description)	Picture
<p>1. Unfasten 4 screw(1,2,3,4) on the side of CABINET TOP.</p> <p>*Screw 1,2,3,4 SPEC: BH 3*10 WHITE</p>	
<p>2. Unfasten 5 screw(1,2,3,4,5) on the side of CABINET REAR.</p> <p>*Screw 1,2,3,4,5 SPEC: BH 3*10 WHITE</p>	

Order(Description)	Picture
<p>3.Unfasten 2 screw(1,2)on the side of CABINET-FRONT.</p> <div data-bbox="213 779 700 817" style="border: 1px solid black; padding: 2px;"> <p>*Screw 1,2 SPEC:FH 3*10 BLK</p> </div>	 <p>The top photograph shows the front of the device with a yellow plastic cover partially removed. A callout bubble with the number '1' points to a screw on the right side. The bottom photograph shows the same device from a slightly different angle, with a callout bubble with the number '2' pointing to a screw on the left side.</p>
<p>4.Unfasten 2 screw(1,2)on the side of CABINET REAR then separate ASS'Y-CD DECK</p> <div data-bbox="213 1319 700 1357" style="border: 1px solid black; padding: 2px;"> <p>*Screw 1,2 SPEC:BH 3*10 WHITE</p> </div>	 <p>The photograph shows the rear of the device. Two callout bubbles with the numbers '1' and '2' point to screws on the left and right sides, respectively. The device has a white metal casing with ventilation grilles and a fan. A timestamp '2005/07/13 08:49' is visible in the bottom right corner.</p>

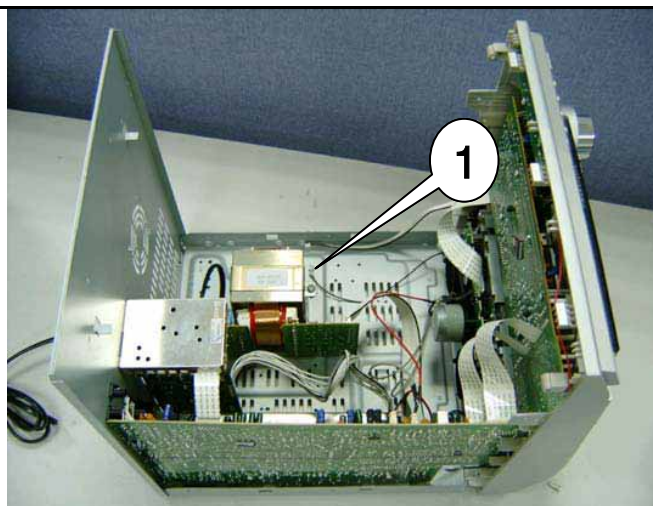
5. Unfasten 2 screw(1,2) on the side of
CABINET-BOTTOM.

*Screw 1,2 SPEC: BH, 3*6, WHITE

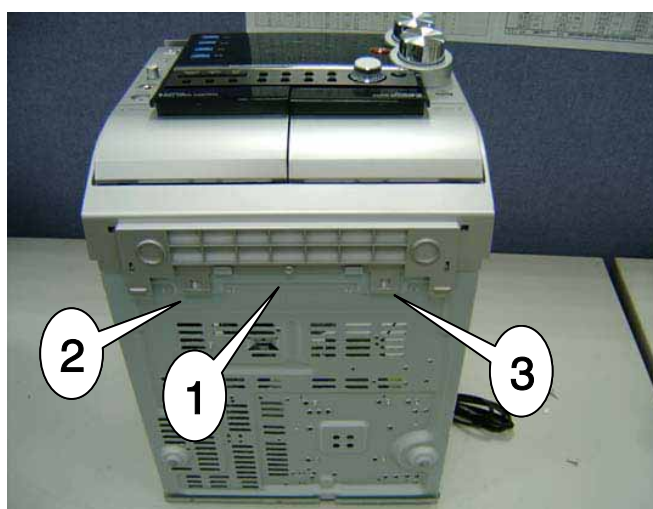


6. Unfasten 1 screw(1) on the side of
CABINET-BOTTOM.

*Screw 1,2 SPEC: BH, 3*6, WHITE



7. Unfasten 1 screw(1) on the side of
CABINET-BOTTOM, Then
Turn over the hook at 2 and 3 of
CABINET FRONT and separate
ASSY-FRONT.



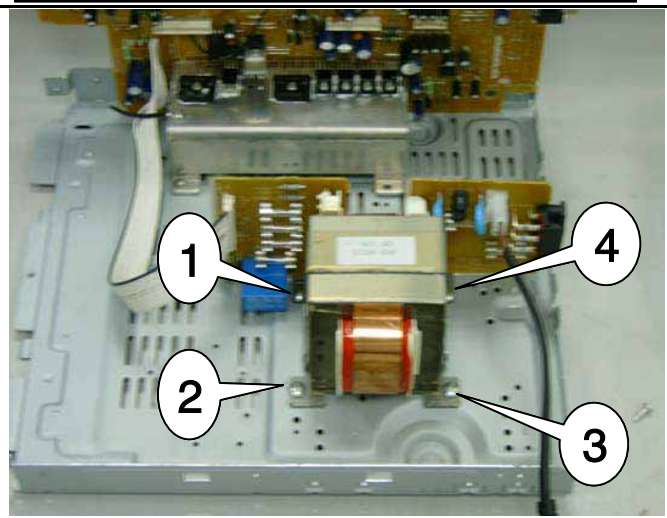
8. Unfasten 1 screw(1) on the side of **CABINET REAR** and separate **MAIN PCB ASSY.**

*Screw 1 SPEC: BH 3*10 WHITE



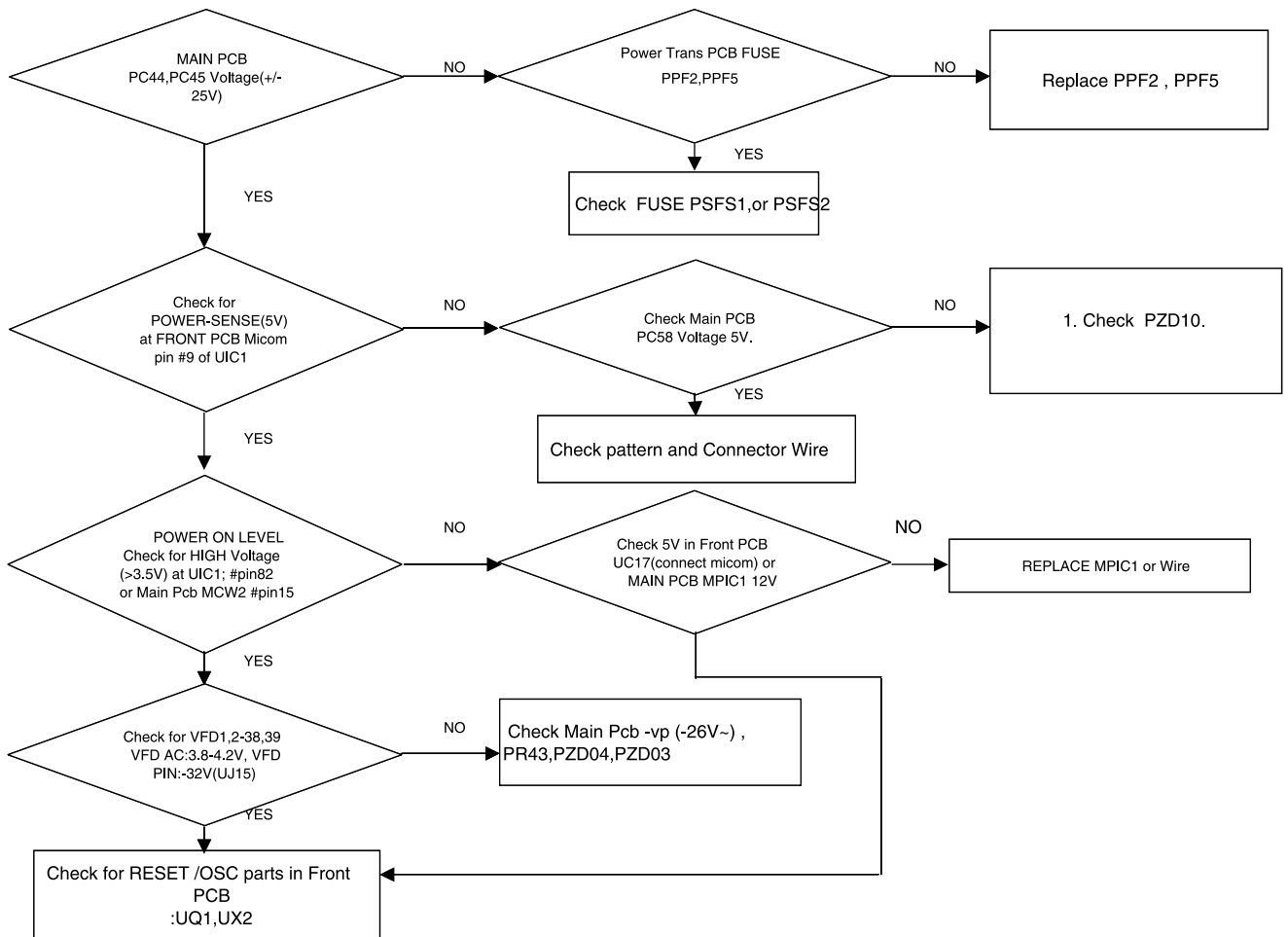
9. Unfasten 4 screws(1,2,3,4) on the side of **CABINET BOTTOM** and separate **P/T**

*Screw 1,2,3,4 SPEC: BH, 4*10, YEL

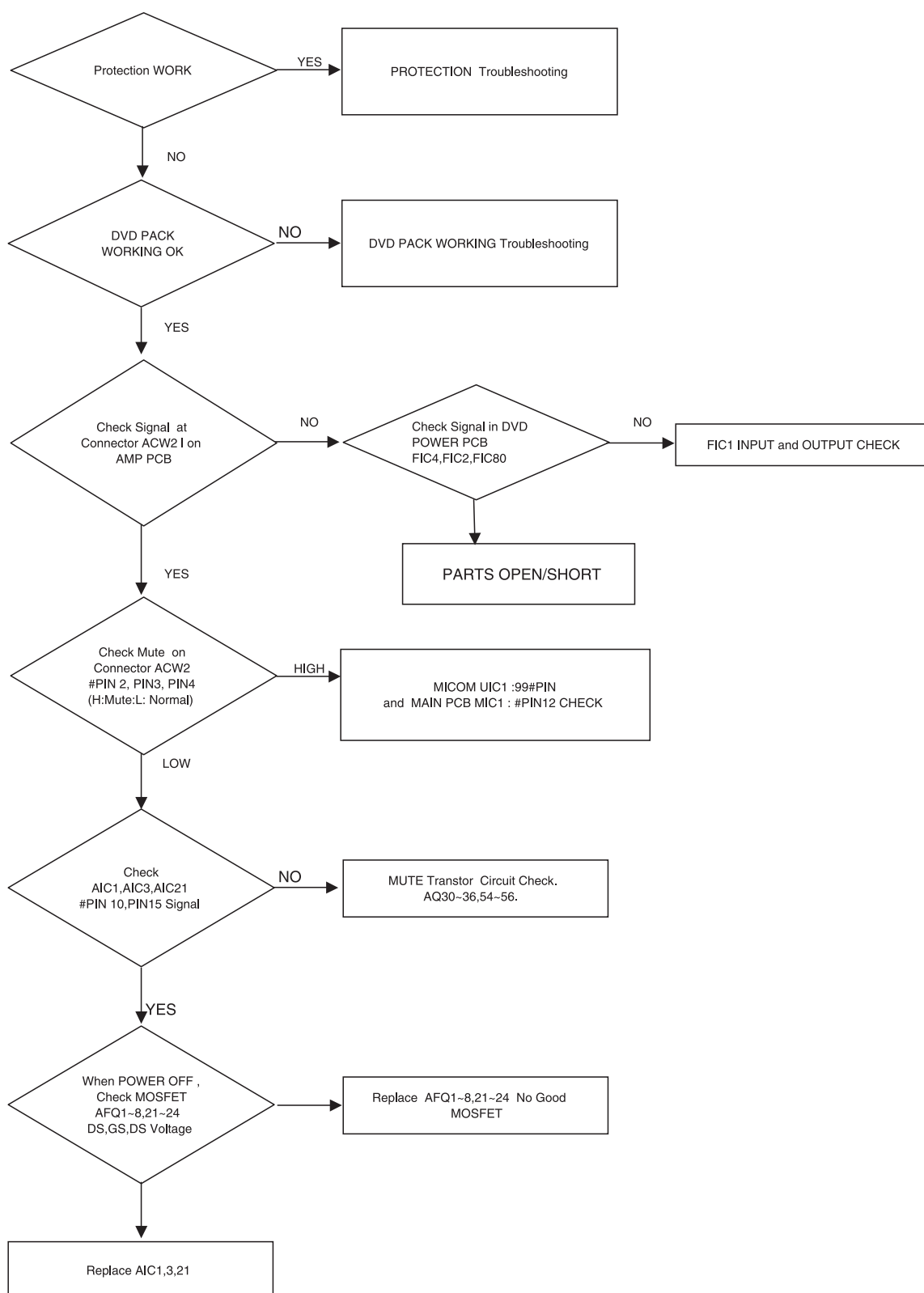


6. TroubleShooting

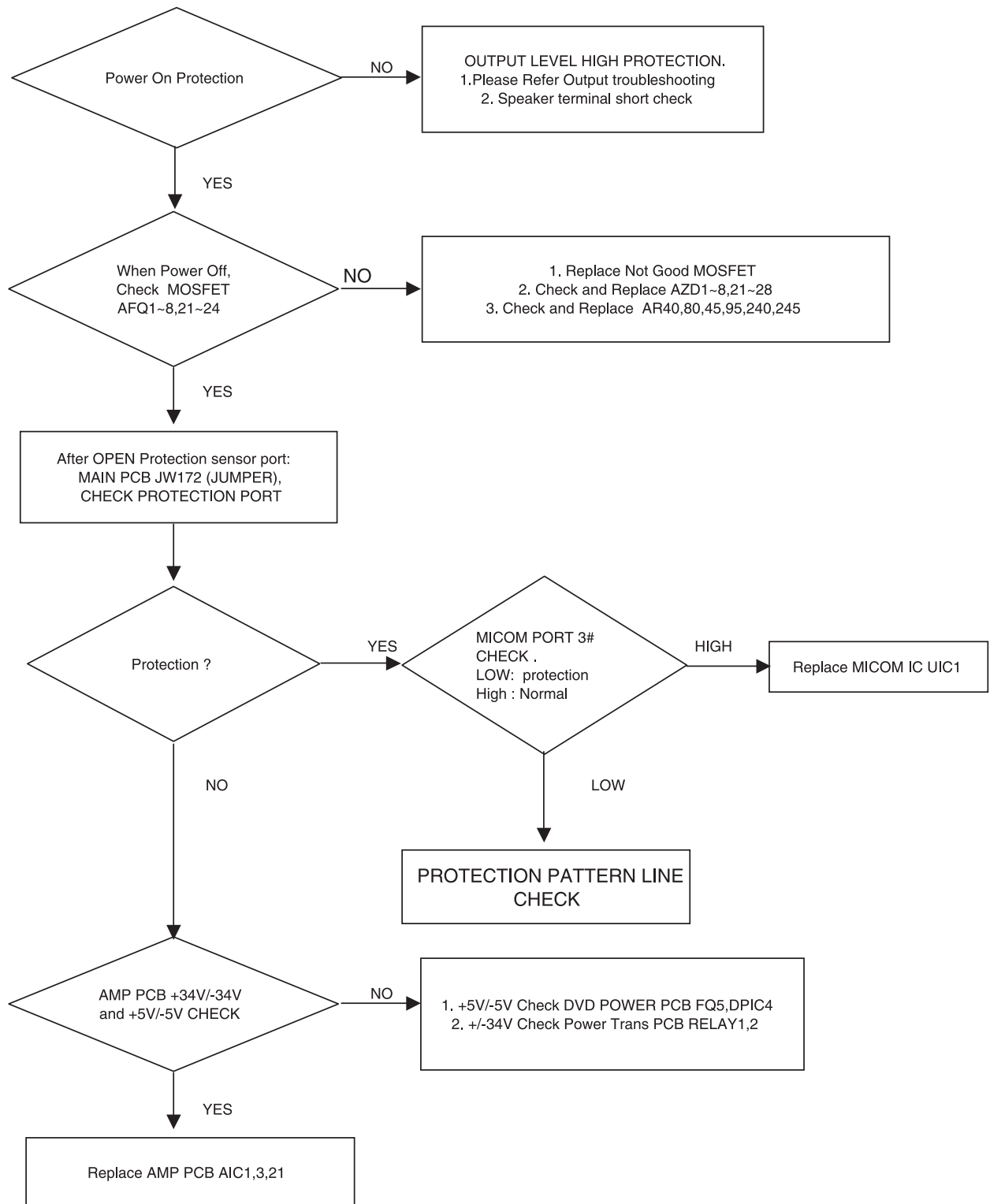
1.Main(Power)



2.Output

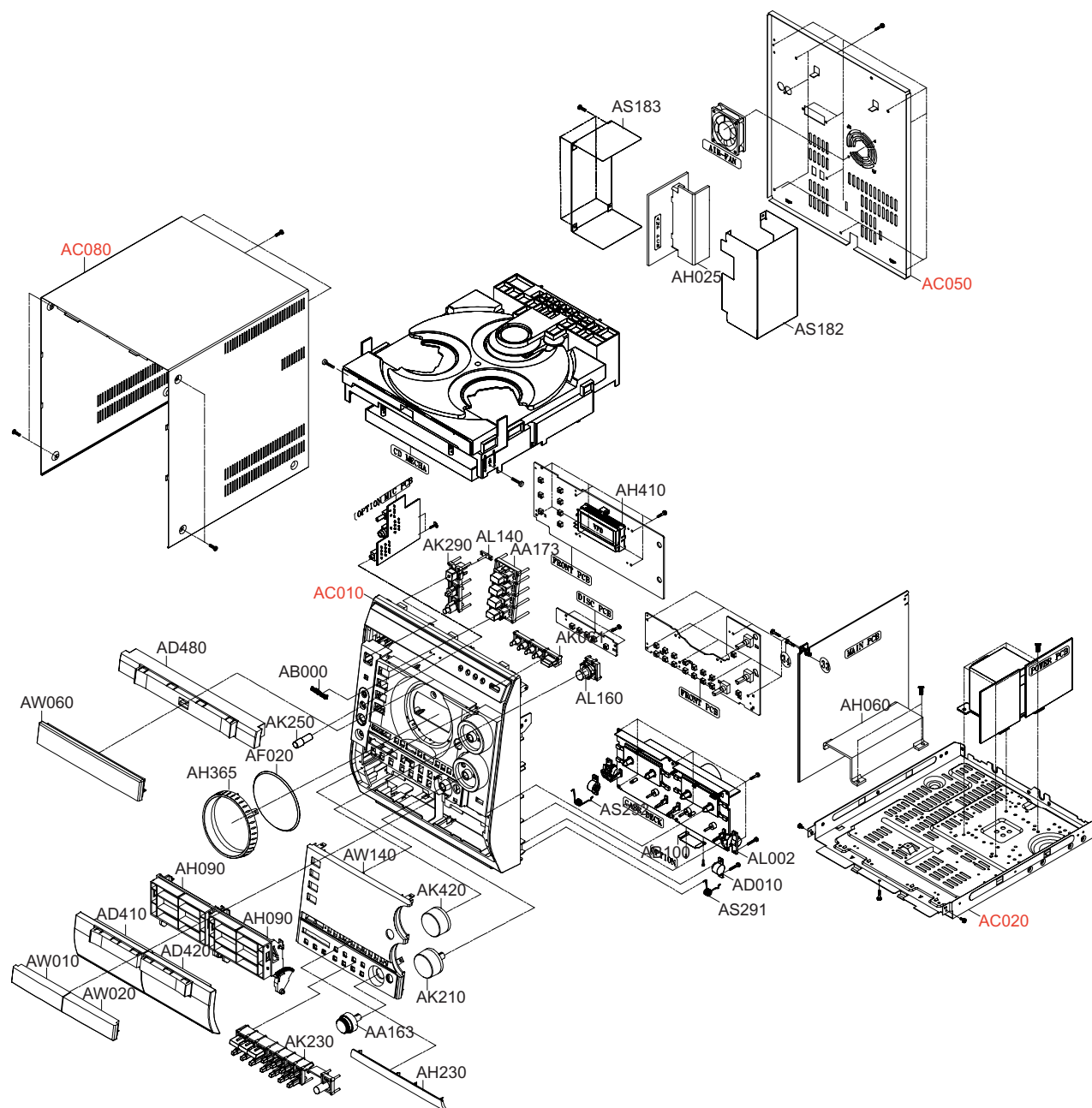


3. Protection



7.Exploded Views and Parts List

1. Total Exploded View



2. Parts List

Location No.	Code No.	Description	Specification	SNA
AB100	AH61-00413B	BRACKET-DECK	SPTE 0.3T,0.3T	
AS291	AH61-00552A	SPRING ETC-EJECT,L	SUS 304 WPB,PI	
AS292	AH61-00553A	SPRING ETC-EJECT,R	SUS 304 WPB,PI	
AH410	AH61-01520A	HOLDER-VFD	ABS ,BLK	
AH365	AH61-01841B	HOLDER-RING	ABS	
AH100	AH61-01842A	HOLDER-CASS,A	ABS	
AH110	AH61-01843A	HOLDER-CASS,B	ABS	
AH381	AH61-01845A	HOLDER-SOUND	ABS	
AH230	AH61-01856B	HOLDER-FRONT	ABS	
AS400	AH61-40014A	SUPPORT-RIVET	SUPPORT-RIVET	
AD010	AH61-80030A	DAMPER-ASSY	POM,BLK,M0.8	
AH080	AH62-00062A	HEAT SINK-TR	AL EXTR,	
AH060	AH62-00141A	HEAT SINK-MAIN	SECC,	
AH025	AH62-00142B	HEAT SINK-AMP	,AL	
AH020	AH62-30048A	HEAT SINK	PBSS,T0.8,KCD-11/22	
AF020	AH63-00951B	FILTER-VFD	PC,T0.5	
AS183	AH63-01066A	SHIELD-AMP-TOP	SECC	
AS182	AH63-01067A	SHIELD-AMP-BOTTOM	SECC	
AC080	AH64-00593A	CABINET--TOP	PCM T0.625,	
AK250	AH64-02289B	KNOB-MIC	ABS,L/GRAY,SI	
AC020	AH64-02840A	CABINET-BOTTOM	SECC 1.	
AC010	AH64-03295B	CABINET-FRONT	MIPS	
AD410	AH64-03297B	DOOR-CASS,A	ABS	
AD420	AH64-03298B	DOOR-CASS,B	ABS	
AD480	AH64-03299B	DOOR-CD	ABS	
AK210	AH64-03301B	KNOB-JOG	ABS	
AK230	AH64-03303B	KNOB-MAIN	ABS	
AK061	AH64-03304B	KNOB-CD,OPEN	ABS	
AK420	AH64-03306B	KNOB-VOLUME	ABS	
AW010	AH64-03307B	WINDOW-CASS,A	PMMA	
AW020	AH64-03308B	WINDOW-CASS,B	PMMA	
AW060	AH64-03309B	WINDOW-DOOR,CD	PMMA	
AW140	AH64-03310D	WINDOW-VFD	PMMA	
AK290	AH64-03313B	KNOB-POWER,ECHO	ABS	
AC050	AH64-03343G	CABINET-REAR		
AA163	AH64-03521A	KNOB-EQ,ASS'Y	ABS	
AB000	AH64-70003K	BADGE-BRAND	ABS+STAMPING,L35,SIL	
AG030	AH66-00235A	GEAR-PULLEY	SDM-R31,POM (F20-03),0.5,14,	
AP090	AH66-00239A	PULLEY-BELT	SDM-R31,CR 1.5,75,78,mm,	
AL140	AH67-00238A	LENS-POWER	PMMA,MILKY	
AL060	AH67-00260C	LENS-DVD	PMMA	
AL160	AH67-00344B	LENS-SOUND	PMMA	
AL070	AH67-00372B	LENS-FUNCTION	PMMA	
AL160	AH67-00373A	LENS-SOUND,ASS'Y	PMMA	
AL002	AH95-50001A	ASSY-LATCH		X

8. Electrical Parts List

Location no.	Code no.	Description & Specification	Remarks	Location no.	Code no.	Description & Specification	Remarks
	AH92-02328A	ASSY PCB-MAIN	MAX-DS650				
APR1	2001-001077	R-CARBON(S)	150OHM,5%,1/2W,AA,TP2.4X6.4	DC18	2201-000017	C-CERAMIC,DISC	1nF,10%,50V,Y5P,-5x3.5mm
APR2	2001-001077	R-CARBON(S)	150OHM,5%,1/2W,AA,TP2.4X6.4	DC19	2201-000017	C-CERAMIC,DISC	1nF,10%,50V,Y5P,-5x3.5mm
APR3	2001-000020	R-CARBON(S)	22OHM,5%,1/2W,AA,TP2.4X6.4M	DC2	2201-000376	C-CERAMIC,DISC	0.22NF,5%,50V,SL,TP6.3X3
APR4	2001-000020	R-CARBON(S)	22OHM,5%,1/2W,AA,TP2.4X6.4M	DC20	2401-001912	C-AL	1uF,20%,50V,GPBK,5x11mm,2mm
AC1	2201-000376	C-CERAMIC,DISC	0.22NF,5%,50V,SL,TP6.3X3	DC21	2401-001975	C-AL	47uF,20%,16V,GP,TP5x11mm,5mm
AC10	2301-000404	C-FILM,LEAD-PEF	2.2nF,10%,50V,TP5.5x12x	DC22	2201-000017	C-CERAMIC,DISC	1nF,10%,50V,Y5P,-5x3.5mm
AC11	2301-000379	C-FILM,LEAD-PEF	10nF,10%,50V,TP6x12x3.5	DC23	2201-000017	C-CERAMIC,DISC	1nF,10%,50V,Y5P,-5x3.5mm
AC12	2401-000651	C-AL	2.2uF,20%,50V,GP,TP4x7.5	DC24	2301-000379	C-FILM,LEAD-PEF	10nF,10%,50V,TP6x12x3.5
AC13	2301-000379	C-FILM,LEAD-PEF	10nF,10%,50V,TP6x12x3.5	DC26	2301-000375	C-FILM,LEAD-PEF	100nF,5%,50V,TP11x12.5x
AC14	2401-001080	C-AL	330nF,20%,50V,GP,-5x11,2mm	DC27	2401-000651	C-AL	2.2uF,20%,50V,GP,TP4x7.5
AC15	2401-001080	C-AL	330nF,20%,50V,GP,-5x11,2mm	DC28	2401-000651	C-AL	2.2uF,20%,50V,GP,TP4x7.5
AC16	2401-000651	C-AL	2.2uF,20%,50V,GP,TP4x7.5	DC30	2401-000480	C-AL	10uF,20%,50V,GP,TP5x11,5
AC17	2401-000651	C-AL	2.2uF,20%,50V,GP,TP4x7.5	DC31	2301-000422	C-FILM,LEAD-PEF	3.3nF,10%,50V,TP5.5x7x3
AC18	2401-000480	C-AL	10uF,20%,50V,GP,TP5x11,5	DC31A	2301-000375	C-FILM,LEAD-PEF	100nF,5%,50V,TP11x12.5x
AC2	2201-000376	C-CERAMIC,DISC	0.22NF,5%,50V,SL,TP6.3X3	DC32	2401-001975	C-AL	47uF,20%,16V,GP,TP5x11mm,5mm
AC3	2201-000376	C-CERAMIC,DISC	0.22NF,5%,50V,SL,TP6.3X3	DC33	2201-000376	C-CERAMIC,DISC	0.22NF,5%,50V,SL,TP6.3X3
AC4	2201-000376	C-CERAMIC,DISC	0.22NF,5%,50V,SL,TP6.3X3	DC34	2401-000651	C-AL	2.2uF,20%,50V,GP,TP4x7.5
AC5	2301-000375	C-FILM,LEAD-PEF	100nF,5%,50V,TP11x12.5x	DC36	2401-000598	C-AL	1uF,20%,50V,GP,TP4x7.5
AC6	2301-000375	C-FILM,LEAD-PEF	100nF,5%,50V,TP11x12.5x	DC37	2301-000422	C-FILM,LEAD-PEF	3.3nF,10%,50V,TP5.5x7x3
AC7	2301-000375	C-FILM,LEAD-PEF	100nF,5%,50V,TP11x12.5x	DC4	2401-001164	C-AL	33uF,20%,16V,GP,TP5x11mm,5mm
AC8	2301-000375	C-FILM,LEAD-PEF	100nF,5%,50V,TP11x12.5x	DC41	2401-000598	C-AL	1uF,20%,50V,GP,TP4x7.5
AC9	2301-000404	C-FILM,LEAD-PEF	2.2nF,10%,50V,TP5.5x12x	DC7	2301-000375	C-FILM,LEAD-PEF	100nF,5%,50V,TP11x12.5x
ACW5	3711-000820	CONNECTOR-HEADER	BOX,2P1R,2.5MM,STRAIGH	DC8	2401-000651	C-AL	2.2uF,20%,50V,GP,TP4x7.5
AD111	0401-000005	DIODE-SWITCHING	1N4148,75V,150MA,DO-35,T	DC8AA	2401-000651	C-AL	2.2uF,20%,50V,GP,TP4x7.5
ADDD1	0401-000005	DIODE-SWITCHING	1N4148,75V,150MA,DO-35,T	DC9	2401-000651	C-AL	2.2uF,20%,50V,GP,TP4x7.5
ADDR1	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP1.8X3.2MM	DCW1	3711-001038	CONNECTOR-HEADER	BOX,6P1R,2.5mm,STRAIGH
ADDR2	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP1.8X3.2MM	DCW2	3711-003409	CONNECTOR-HEADER	BOX,3P1R,2mm,STRAIGHT,
AMC1	2401-000480	C-AL	10uF,20%,50V,GP,TP5x11,5	DCW3	3711-003107	CONNECTOR-HEADER	BOX,3P1R,2.5mm,STRAIGH
AMD1	0402-000127	DIODE-RECTIFIER	1N4002,100V,1A,DO-41,TP	DD1	0401-000005	DIODE-SWITCHING	1N4148,75V,150MA,DO-35,T
AMD2	0403-000509	DIODE-ZENER	MTZJ5.6B,5.4-5.7V,500MW,DO-3	DI1	1201-001899	IC-PREAMP	HA12237F,QFP40P,7X7MM,-,PLA
AMD3	0401-000005	DIODE-SWITCHING	1N4148,75V,150MA,DO-35,T	DL1	AH27-10001T	COIL CHOKE	875-101-105K,MAX-S530,18MH#1
AMQ1	0501-002375	TR-SMALL SIGNAL	KT08050,NPN,625MW,TO-92	DL2	AH27-10001T	COIL CHOKE	875-101-105K,MAX-S530,18MH#1
AMR1	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP1.8X3.2MM	DL3	2701-000298	INDUCTOR-AXIAL	470uH,10%,4298
AMR2	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP1.8X3.2M	DL4	AH26-00227A	TRANS RF	-----,10SKHZ,7.6 X 7.6,-
APQ02	0501-000422	TR-SMALL SIGNAL	KTA1273,PNP,-30V,-30V,2	DQ2	0501-002409	TR-SMALL SIGNAL	KT0945B,NPN,800mW,TO-92
APQ1	0501-002176	TR-SMALL SIGNAL	KTD863,NPN,1W,TO-92L,TP	DQ3	0501-000422	TR-SMALL SIGNAL	KTA1273,PNP,-30V,-30V,2
AQ111	0501-000331	TR-SMALL SIGNAL	KSC1009-Y,NPN,800mW,TO-9	DQ4	0501-002176	TR-SMALL SIGNAL	KTD863,NPN,1W,TO-92L,TP
AR1	2001-000449	R-CARBON	2.2KOHM,5%,1/8W,AA,TP1.8X3.2M	DQ5	0504-001128	TR-DIGITAL	KRA103M,PNP,400MW,22K/22K,TO-
AR10	2001-000515	R-CARBON	220OHM,5%,1/8W,AA,TP1.8X3.2MM	DQ6	0501-000010	TR-SMALL SIGNAL	KSC1008,NPN,800mW,TO-92
AR11	2001-000273	R-CARBON	100KOHM,5%,1/8W,AA,TP1.8X3.2M	DQ7	0501-000010	TR-SMALL SIGNAL	KSC1008,NPN,800mW,TO-92
AR12	2001-000017	R-CARBON	4.7OHM,5%,1/4W,AA,TP2.4X6.4MM	DQ8	0501-000010	TR-SMALL SIGNAL	KSC1008,NPN,800mW,TO-92
AR14	2001-000221	R-CARBON	1.2KOHM,5%,1/8W,AA,TP1.8X3.2M	DQ9	0501-000010	TR-SMALL SIGNAL	KSC1008,NPN,800mW,TO-92
AR2	2001-000449	R-CARBON	2.2KOHM,5%,1/8W,AA,TP1.8X3.2M	DR1	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP1.8X3.2MM
AR3	2001-000786	R-CARBON	47KOHM,5%,1/8W,AA,TP1.8X3.2MM	DR10	2001-000435	R-CARBON	1MOHM,5%,1/8W,AA,TP1.8X3.2MM
AR4	2001-000786	R-CARBON	47KOHM,5%,1/8W,AA,TP1.8X3.2MM	DR12	2001-000008	R-CARBON	15KOHM,5%,1/8W,AA,TP1.8X3.2MM
AR6	2001-000802	R-CARBON	5.6Kohm,5%,1/8W,AA,TP1.8x3.2m	DR13	2001-000258	R-CARBON	1.8KOHM,5%,1/8W,AA,TP1.8X3.2M
AR7	2001-000689	R-CARBON	390KOHM,5%,1/8W,AA,TP1.8X3.2M	DR14	2001-000411	R-CARBON	18KOHM,5%,1/8W,AA,TP1.8X3.2MM
AR8	2001-000689	R-CARBON	390KOHM,5%,1/8W,AA,TP1.8X3.2M	DR15	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP1.8X3.2M
CC1	2401-000480	C-AL	10uF,20%,50V,GP,TP5x11,5	DR16	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP1.8X3.2M
CC2	2401-000480	C-AL	10uF,20%,50V,GP,TP5x11,5	DR17	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP1.8X3.2MM
CC3	2201-000565	C-CERAMIC,DISC	47nF,+80-20%,--,12.5x4mm	DR18	2001-001070	R-CARBON(S)	120OHM,5%,1/2W,AA,TP2.4X6.4
CC5	2401-000651	C-AL	2.2uF,20%,50V,GP,TP4x7.5	DR19	2001-000786	R-CARBON	47KOHM,5%,1/8W,AA,TP1.8X3.2MM
CCW1	3711-000658	CONNECTOR-HEADER	BOX,12P1R,2.5mm,STRAIGH	DR2	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP1.8X3.2MM
CCW2	3711-002809	CONNECTOR-HEADER	BOX,8P1R,2mm,STRAIGHT,	DR20	2001-000591	R-CARBON	3.3KOHM,5%,1/8W,AA,TP1.8X3.2M
CQ2	0501-002375	TR-SMALL SIGNAL	KTC8050,NPN,625MW,TO-92	DR21	2001-000802	R-CARBON	5.6Kohm,5%,1/8W,AA,TP1.8x3.2m
CQ3	0501-002375	TR-SMALL SIGNAL	KTC8050,NPN,625MW,TO-92	DR22	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP1.8X3.2M
CQ3AA	0504-001128	TR-DIGITAL	KRA103M,PNP,400MW,22K/22K,TO-	DR23	2001-001096	R-CARBON(S)	2.2OHM,5%,1/2W,AA,TP2.4X6.4
CR1	2001-000890	R-CARBON	6.8KOHM,5%,1/8W,AA,TP1.8X3.2M	DR24	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP1.8X3.2MM
CR1A	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP1.8X3.2MM	DR25	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP1.8X3.2M
CR2	2001-000890	R-CARBON	6.8KOHM,5%,1/8W,AA,TP1.8X3.2M	DR26	2001-000977	R-CARBON	8.2KOHM,5%,1/8W,AA,TP1.8X3.2M
CR2A	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP1.8X3.2MM	DR27	2001-000008	R-CARBON	15KOHM,5%,1/8W,AA,TP1.8X3.2MM
CR4	2001-000411	R-CARBON	18KOHM,5%,1/8W,AA,TP1.8X3.2MM	DR28	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP1.8X3.2M
CR6	2001-000411	R-CARBON	18KOHM,5%,1/8W,AA,TP1.8X3.2MM	DR28A	2001-000802	R-CARBON	5.6Kohm,5%,1/8W,AA,TP1.8x3.2m
CR7	2001-000591	R-CARBON	3.3KOHM,5%,1/8W,AA,TP1.8X3.2M	DR29	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP1.8X3.2M
DC10	2301-000375	C-FILM,LEAD-PEF	100nF,5%,50V,TP11x12.5x	DR3	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP1.8X3.2MM
DC11	2301-000379	C-FILM,LEAD-PEF	10nF,10%,50V,TP6x12x3.5	DR30	2001-000924	R-CARBON	680OHM,5%,1/8W,AA,TP1.8X3.2MM
DC12	2401-001975	C-AL	47uF,20%,16V,GP,TP5x11mm,5mm	DR31	2001-000924	R-CARBON	680OHM,5%,1/8W,AA,TP1.8X3.2MM
DC128	2201-000338	C-CERAMIC,DISC	2.2nF,20%,50V,YST,TP5.0x	DR32	2001-000924	R-CARBON	680OHM,5%,1/8W,AA,TP1.8X3.2MM
DC12A	2201-000338	C-CERAMIC,DISC	2.2nF,20%,50V,YST,TP5.0x	DR33	2001-000924	R-CARBON	680OHM,5%,1/8W,AA,TP1.8X3.2MM
DC13	2301-000407	C-FILM,LEAD-PEF	2.7nF,10%,50V,TP5.5x12x	DR34	2001-000890	R-CARBON	6.8KOHM,5%,1/8W,AA,TP1.8X3.2M
DC15	2301-000404	C-FILM,LEAD-PEF	2.2nF,10%,50V,TP5.5x12x	DR35	2001-000890	R-CARBON	6.8KOHM,5%,1/8W,AA,TP1.8X3.2M
DC16	2201-000376	C-CERAMIC,DISC	0.22NF,5%,50V,SL,TP6.3X3	DR36	2001-000890	R-CARBON	6.8KOHM,5%,1/8W,AA,TP1.8X3.2M
DC17	2201-000376	C-CERAMIC,DISC	0.22NF,5%,50V,SL,TP6.3X3	DR37	2001-000890	R-CARBON	6.8KOHM,5%,1/8W,AA,TP1.8X3.2M
				DR4	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP1.8X3.2MM

Location no.	Code no.	Description & Specification	Remarks	Location no.	Code no.	Description & Specification	Remarks
DR42	2001-000411	R-CARBON	18KOHM,5%,1/8W,AA,TP,1.8X3.2MM	HR5	2001-000786	R-CARBON	47KOHM,5%,1/8W,AA,TP,1.8X3.2MM
DR5	2001-000522	R-CARBON	22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	HR6	2001-000786	R-CARBON	47KOHM,5%,1/8W,AA,TP,1.8X3.2MM
DR6	2001-000258	R-CARBON	1.8KOHM,5%,1/8W,AA,TP,1.8X3.2M	HR7	2001-000019	R-CARBON(S)	10OHM,5%,1/2W,AA,TP,2.4X6.4M
DR8	2001-000977	R-CARBON	8.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	HR8	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3.2MM
DR9	2001-000302	R-CARBON	10OHM,5%,1/8W,AA,TP,1.8X3.2MM	HR9	2001-000449	R-CARBON	2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M
DSR2	2001-000563	R-CARBON	27KOHM,5%,1/8W,AA,TP,1.8X3.2MM				
DSR3	2001-000563	R-CARBON	27KOHM,5%,1/8W,AA,TP,1.8X3.2MM	JJ	3722-000143	JACK-PHONE	1P(VER),3.4PI,AG,BLK,NO
DVC2	2401-000480	C-AL	10uF,20%,50V,GPTP,5x11,5	KC12	2301-000379	C-FILM,LEAD-PEF	10nF,10%,50V,TP,6x12x3.5
DVC2A	2401-000480	C-AL	10uF,20%,50V,GPTP,5x11,5	KC13	2301-000445	C-FILM,LEAD-PEF	4.7nF,5%,50V,TP,5.5x7x3mm
DVR16	2001-000793	R-CARBON	47OHM,5%,1/8W,AA,TP,1.8X3.2MM	KC14	2301-000474	C-FILM,LEAD-PEF	8.2nF,10%,50V,TP,6.5x12x
EMC3	2202-000806	C-CERAMIC,MLC-AXIAL	220pF,10%,50V,Y5P,TP	KC15	2202-002055	C-CERAMIC,MLC-AXIAL	47nF,+80-20%,50V,Y5V
EMC4	2202-000806	C-CERAMIC,MLC-AXIAL	220pF,10%,50V,Y5P,TP	KC16	2202-002055	C-CERAMIC,MLC-AXIAL	47nF,+80-20%,50V,Y5V
FC18	2401-000651	C-AL	2.2uF,20%,50V,GPTP,4x7,5	KC17	2301-000379	C-FILM,LEAD-PEF	10nF,10%,50V,TP,6x12x3.5
FC19	2401-000651	C-AL	2.2uF,20%,50V,GPTP,4x7,5	KC18	2202-002037	C-CERAMIC,MLC-AXIAL	100nF,80-20%,50V,Y5V
FC2	2401-000027	C-AL	4.7uF,20%,50V,GPTP,5x11,5	KC19	2301-000422	C-FILM,LEAD-PEF	3.3nF,10%,50V,TP,5.5x7x3
FC22	2401-000651	C-AL	2.2uF,20%,50V,GPTP,4x7,5	KC20	2202-000797	C-CERAMIC,MLC-AXIAL	10nF,30%,16V,Y5S,TP
FC23	2401-000651	C-AL	2.2uF,20%,50V,GPTP,4x7,5	KC22	2401-001938	C-AL	22uF,20%,25V,GPTP,5x11mm,5mm
FC25	2401-000027	C-AL	4.7uF,20%,50V,GPTP,5x11,5	KC23	2401-001975	C-AL	47uF,20%,16V,GPTP,5x11mm,5mm
FC3	2201-000376	C-CERAMIC,DISC	0.22NF,5%,50V,SL,TP,6.3X3	KC3	2202-000173	C-CERAMIC,MLC-AXIAL	1nF,10%,50V,Y5P,-1
FC33	2401-000027	C-AL	4.7uF,20%,50V,GPTP,5x11,5	KC4	2202-000173	C-CERAMIC,MLC-AXIAL	1nF,10%,50V,Y5P,-1
FC34	2201-000674	C-CERAMIC,DISC	0.82NF,10%,50V,Y5PBK,5X3	KC7	2201-000376	C-CERAMIC,DISC	0.22NF,5%,50V,SL,TP,6.3X3
FC37	2202-000121	C-CERAMIC,MLC-AXIAL	0.1nF,10%,50V,Y5P,-	KC8A	2201-000376	C-CERAMIC,DISC	0.22NF,5%,50V,SL,TP,6.3X3
FC38	2202-000121	C-CERAMIC,MLC-AXIAL	0.1nF,10%,50V,Y5P,-	KD1	0401-000005	DIODE-SWITCHING	1N4148,75V,150MA,DO-35,T
FC4	2401-000027	C-AL	4.7uF,20%,50V,GPTP,5x11,5	KD2	0401-000005	DIODE-SWITCHING	1N4148,75V,150MA,DO-35,T
FC5	2401-000042	C-AL	100uF,20%,16V,GPTP,6.3x7,5	KIC1	1204-001730	IC-ECHO	M65855PDIP,16P,300MIL,PLASTIC
FC6	2201-000376	C-CERAMIC,DISC	0.22NF,5%,50V,SL,TP,6.3X3	KQ2	0501-002375	TR-SMALL SIGNAL	KTC0850,NPN,625MMW,TO-92
FC8	2401-000651	C-AL	2.2uF,20%,50V,GPTP,4x7,5	KQ3	0504-000118	TR-DIGITAL	KSR1003,NPN,300MW,22K/22K,TO-
FC9	2401-000651	C-AL	2.2uF,20%,50V,GPTP,4x7,5	KQ4	0504-000118	TR-DIGITAL	KSR1003,NPN,300MW,22K/22K,TO-
FC0N2	3711-002809	CONNECTOR-HEADER	BOX,8P,1R,2mm,STRAIGHT,	KR12	2001-000773	R-CARBON	470KOHM,5%,1/8W,AA,TP,1.8X3.2M
FD1	0401-000005	DIODE-SWITCHING	1N4148,75V,150MA,DO-35,T	KR13	2001-000773	R-CARBON	470KOHM,5%,1/8W,AA,TP,1.8X3.2M
FC1	1201-000191	IC-OP AMP	4558,DIP,8P,300MIL,DUAL,20V/mV	KR14	2001-000786	R-CARBON	470KOHM,5%,1/8W,AA,TP,1.8X3.2MM
FC2	1201-000191	IC-OP AMP	4558,DIP,8P,300MIL,DUAL,20V/mV	KR15	2001-000591	R-CARBON	3.3KOHM,5%,1/8W,AA,TP,1.8X3.2M
FC3	1204-002219	IC-AUDIO PROCESSOR	BD3872FS,SOP,32P,13.6	KR19	2001-000977	R-CARBON	8.2KOHM,5%,1/8W,AA,TP,1.8X3.2M
FQ1	0501-002409	TR-SMALL SIGNAL	KTC945B,NPN,625MMW,TO-92	KR20	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X3.2MM
FQ1A	0504-001123	TR-DIGITAL	KRC103M,NPN,400MW,22K/22K,TO-	KR21	2001-000522	R-CARBON	22KOHM,5%,1/8W,AA,TP,1.8X3.2MM
FR1	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	KR22	2001-000111	R-CARBON	150OHM,5%,1/4W,AA,TP,2.4X6.4MM
FR11	2001-000003	R-CARBON	330ohm,5%,1/8W,AA,TP,1.8x3.2mm	KR23	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X3.2MM
FR12	2001-000645	R-CARBON	330KOHM,5%,1/8W,AA,TP,1.8X3.2M	KR24	2001-000008	R-CARBON	15KOHM,5%,1/8W,AA,TP,1.8X3.2MM
FR13	2001-000645	R-CARBON	330KOHM,5%,1/8W,AA,TP,1.8X3.2M	KR26	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X3.2MM
FR18	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	KR27	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M
FR19	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	KR28	2001-000008	R-CARBON	15KOHM,5%,1/8W,AA,TP,1.8X3.2MM
FR2	2001-000591	R-CARBON	3.3KOHM,5%,1/8W,AA,TP,1.8X3.2M	KR29	2001-000522	R-CARBON	22KOHM,5%,1/8W,AA,TP,1.8X3.2MM
FR20	2001-000864	R-CARBON	56KOHM,5%,1/8W,AA,TP,1.8X3.2MM	KR30	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X3.2MM
FR21	2001-000864	R-CARBON	56KOHM,5%,1/8W,AA,TP,1.8X3.2MM	KR4	2001-000591	R-CARBON	3.3KOHM,5%,1/8W,AA,TP,1.8X3.2M
FR23	2001-000773	R-CARBON	470KOHM,5%,1/8W,AA,TP,1.8X3.2M	KR5	2001-000591	R-CARBON	3.3KOHM,5%,1/8W,AA,TP,1.8X3.2M
FR24	2001-000273	R-CARBON	100KOHM,5%,1/8W,AA,TP,1.8X3.2M	KR7	2001-000591	R-CARBON	3.3KOHM,5%,1/8W,AA,TP,1.8X3.2M
FR25	2001-000273	R-CARBON	100KOHM,5%,1/8W,AA,TP,1.8X3.2M	KR8	2001-000591	R-CARBON	3.3KOHM,5%,1/8W,AA,TP,1.8X3.2M
FR28	2001-000802	R-CARBON	5.6Kohm,5%,1/8W,AA,TP,1.8x3.2m	MC1	2401-001102	C-AL	330uF,20%,16V,GPTP,8x11.5mm,5
FR3	2001-000786	R-CARBON	47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	MC5	2401-001938	C-AL	22uF,20%,25V,GPTP,5x11mm,5mm
FR4	2001-000591	R-CARBON	3.3KOHM,5%,1/8W,AA,TP,1.8X3.2M	MC6	2401-000651	C-AL	2.2uF,20%,50V,GPTP,4x7,5
FR44	2001-000522	R-CARBON	22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	MC7	2202-000806	C-CERAMIC,MLC-AXIAL	220pF,10%,50V,Y5P,TP
FR5	2001-000591	R-CARBON	3.3KOHM,5%,1/8W,AA,TP,1.8X3.2M	MCN7	AH39-00509A	LEAD CONNECTOR	---,8P,---,51004,3502
FR6	2001-000786	R-CARBON	47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	MCR8	2202-000806	C-CERAMIC,MLC-AXIAL	220pF,10%,50V,Y5P,TP
FR7	2001-000591	R-CARBON	3.3KOHM,5%,1/8W,AA,TP,1.8X3.2M	MCW1	3708-001094	CONNECTOR-FPC/FFC/PIPC	13P,1.25MM,STRAIGH
FR8	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	MCW2	3708-000193	CONNECTOR-FPC/FFC/PIPC	17P,1.25MM,STRAIGH
FZD1	0403-000145	DIODE-ZENER	1N4739A,5%,1000MW,DO-41,TP	MD1	0401-000005	DIODE-SWITCHING	1N4148,75V,150MA,DO-35,T
HC1	2401-000480	C-AL	10uF,20%,50V,GPTP,5x11,5	MD2	0401-000005	DIODE-SWITCHING	1N4148,75V,150MA,DO-35,T
HC2	2202-000806	C-CERAMIC,MLC-AXIAL	220pF,10%,50V,Y5P,TP	MIC1	1201-001572	IC-PREAMP	2011,SIP,7P,17MIL,SINGLE,47,PL
HC3	2401-000480	C-AL	10uF,20%,50V,GPTP,5x11,5	MJ1	3722-000363	JACK-PHONE	9P,6.4PI,AU,BLK,-
HC4	2202-000806	C-CERAMIC,MLC-AXIAL	220pF,10%,50V,Y5P,TP	MPD1	0402-000151	DIODE-RECTIFIER	1N5392,100V,1.5A,DO-15,T
HC5	2401-001975	C-AL	47uF,20%,16V,GPTP,5x11mm,5mm	MPD1A	0402-000127	DIODE-RECTIFIER	1N4002,100V,1A,DO-41,TP
HC6	2401-001975	C-AL	47uF,20%,16V,GPTP,5x11mm,5mm	MPD2	0402-000151	DIODE-RECTIFIER	1N5392,100V,1.5A,DO-15,T
HC7	2401-000480	C-AL	10uF,20%,50V,GPTP,5x11,5	MPD3	0402-000151	DIODE-RECTIFIER	1N5392,100V,1.5A,DO-15,T
HC8	2401-000480	C-AL	10uF,20%,50V,GPTP,5x11,5	MPD4	0402-000151	DIODE-RECTIFIER	1N5392,100V,1.5A,DO-15,T
HIC1	1201-001285	IC-OP AMP	4556,SOP,8P,150MIL,+/-18V,100d	MPIC1	1203-000242	IC-POS.FIXED REG.	7812,TO-220,3P,-,PLAS
HJL1	2701-000111	INDUCTOR-AXIAL	100UH,10%,2534	MPIC2	1203-000110	IC-NEGA.FIXED REG.	7912,TO-220,3P,-,PLAS
HJL2	2701-000111	INDUCTOR-AXIAL	100UH,10%,2534	MPIC3	1203-002560	IC-POS.FIXED REG.	NUM7805,TO-220F,3P,-
HJL1	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	MPIC4	1203-002560	IC-POS.FIXED REG.	NUM7805,TO-220F,3P,-
HQ1	0501-002375	TR-SMALL SIGNAL	KTC8050,NPN,625MMW,TO-92	MPQ1	0501-002409	TR-SMALL SIGNAL	KTC945B,NPN,625MMW,TO-92
HQ2	0501-002375	TR-SMALL SIGNAL	KTC8050,NPN,625MMW,TO-92	MPQ2	0501-002176	TR-SMALL SIGNAL	KTD863,NPN,1W,TO-92L,TP
HQ3	0501-002409	TR-SMALL SIGNAL	KTC945B,NPN,625MMW,TO-92	MPQ3	0504-001128	TR-DIGITAL	KRA103M,PNP,400MW,22K/22K,TO-
HR1	2001-000449	R-CARBON	2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	MPR2	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X3.2MM
HR10	2001-000449	R-CARBON	2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	MPR3	2001-000449	R-CARBON	2.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM
HR11	2001-000449	R-CARBON	2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	MPR4	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M
HR12	2001-000449	R-CARBON	2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	MR01	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X3.2MM
HR2	2001-000449	R-CARBON	2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	MR01A	2001-000522	R-CARBON	22KOHM,5%,1/8W,AA,TP,1.8X3.2MM
HR3	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	MR10	2001-001107	R-CARBON(S)	220ohm,5%,1/2W,AA,TP,2.4x6.4
HR4	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	MR2	2001-000449	R-CARBON	2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M

Location no.	Code no.	Description & Specification	Remarks	Location no.	Code no.	Description & Specification	Remarks
MR3	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	TC8	2202-000121	C-CERAMIC,MLC-AXIAL	0.1nF,10%,50V,Y5P,-
MR4	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	TC8	2202-000121	C-CERAMIC,MLC-AXIAL	0.1nF,10%,50V,Y5P,-
MR5	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	TC9	2202-000121	C-CERAMIC,MLC-AXIAL	0.1nF,10%,50V,Y5P,-
MR6	2001-000005	R-CARBON	390ohm,5%,1/8W,AA,TP,1.8X3.2mm	TC0N1	3708-000412	CONNECTOR-FPC/FFC/PIC	12P,1.25MM,ANGLE,-
MR7	2001-000435	R-CARBON	1MOHM,5%,1/8W,AA,TP,1.8X3.2MM	TR1	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM
MR9	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	TR10	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M
MUD1	0401-000005	DIODE-SWITCHING	1N4148,75V,150MA,DO-35,T	TR11	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM
MUD2	0401-000005	DIODE-SWITCHING	1N4148,75V,150MA,DO-35,T	TR12	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M
MVR1	2101-001106	VR-ROTARY	10KOHM,10%,1/20W,SIDE	TR15	2001-000022	R-CARBON(S)	33OHM,5%,1/2W,AA,TP,2.4X6.4M
PBD4	0402-001258	DIODE-BRIDGE	GBU606,600V,6A,SIP-4,BK	TR2	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM
PC1	2401-000042	C-AL	100uF,20%,16V,GP,TP,6.3x7.5	TR3	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM
PC10	2401-000303	C-AL	100uF,20%,25V,GP,TP,6.3x11.5	TR5	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM
PC11	2401-001355	C-AL	470uF,20%,10V,GP,TP,8x11.5mm,5	TR6	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM
PC13	2401-000303	C-AL	100uF,20%,25V,GP,TP,6.3x11.5	TR9	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM
PC26	2401-000129	C-AL	1000uF,20%,16V,GP,-,10x16mm,5		2001-000356	R-CARBON	150KOHM,5%,1/8W,AA,TP,1.8X3.2M
PC39	2401-000480	C-AL	10uF,20%,50V,GP,TP,5x11.5		2401-000118	C-AL	1000uF,20%,10V,GP,TP,10x12.5,5
PC4	2201-000021	C-CERAMIC,DISC	100NF,+80-20%,50V,Y5V,TP,		2401-001324	C-AL	0.47UF,20%,50V,GPBK,3X5,2.5
PC40	2201-000565	C-CERAMIC,DISC	47nF,+80-20%,,-,12.5x4mm		3722-000377	WIRE-PIN	4P/2C,3.5mm,SN,BLK,#16-22
PC42	2201-000565	C-CERAMIC,DISC	47nF,+80-20%,,-,12.5x4mm		3811-000130	WIRE-PVC CU	BCWA,300V,60mm,7/0.16mm,#26,
PC42A	2201-000565	C-CERAMIC,DISC	47nF,+80-20%,,-,12.5x4mm		6003-001375	SCREW-TAPTITE	BH,-,B,M3,L8,2PC(YEL),SWRC
PC43	2201-000565	C-CERAMIC,DISC	47nF,+80-20%,,-,12.5x4mm		AH27-10001F	COIL-CHOKE	27uH,K,Q30,-,-,DR(6.5*7.5),-
PC43A	2201-000565	C-CERAMIC,DISC	47nF,+80-20%,,-,12.5x4mm		AH62-00062A	HEAT SINK-TR	HT-DL100,AL EXTR,-,-,-,-,-,-,-
PC44	2401-001633	C-AL	6800uF,20%,25V,GPBK,18x35.5,7		AH62-00141A	HEAT SINK-MAIN	MAX-DC650,SECC,-,-,-,-,-,-,-
PC45	2401-001633	C-AL	6800uF,20%,25V,GPBK,18x35.5,7		AH65-30010A	CLAMP-WIRE	-,-,-,-,-,-,-
PC46	2201-000565	C-CERAMIC,DISC	47nF,+80-20%,,-,12.5x4mm		AH69-20342A	CUSHION-MOTOR	-,-HYMERON,0.4,37,14,-,-
PC47	2201-000565	C-CERAMIC,DISC	47nF,+80-20%,,-,12.5x4mm		AH92-02329C	ASSY PCB-AMP	MAX-C670,-
PC48	2401-003381	C-AL	3300uF,20%,63V,GPBK,22x40,10	AC1	2401-000650	C-AL	2.2uF,20%,50V,GP,TP,3.5x5,2.5
PC49	2401-003381	C-AL	3300uF,20%,63V,GPBK,22x40,10	AC10	2203-005148	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608
PC5	2201-000565	C-CERAMIC,DISC	47nF,+80-20%,,-,12.5x4mm	AC11	2203-002398	C-CER,CHIP	22nF,10%,50V,X7R,TP,1608
PC53	2401-000042	C-AL	100uF,20%,16V,GP,TP,6.3x7.5	AC12	2203-005065	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,1608
PC54	2401-000042	C-AL	100uF,20%,16V,GP,TP,6.3x7.5	AC13	2203-005065	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,1608
PC55	2401-000230	C-AL	100uF,20%,100V,GP,TP,12.5x20mm	AC14	2401-002335	C-AL	1000uF,20%,63VLZ,BK,16x40,5mm
PC56	2401-000357	C-AL	100uF,20%,50V,GP,-,8x11.5,3.5m	AC14	2401-000230	C-AL	100uF,20%,100V,GP,TP,12.5x20mm
PC57	2401-000480	C-AL	10uF,20%,50V,GP,TP,5x11.5	AC15	2203-005148	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608
PC58	2401-001625	C-AL	6.8uF,20%,50V,GP,TP,5x11.5	AC16	2401-000407	C-AL	10uF,20%,16V,GP,TP,3.5x5,2.5
PC80	2401-000042	C-AL	100uF,20%,16V,GP,TP,6.3x7.5	AC17	2203-005065	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,1608
PC7	2201-000565	C-CERAMIC,DISC	47nF,+80-20%,,-,12.5x4mm	AC18	2203-005819	C-CER,CHIP	1000nF,+80-20%,16V,Y5V,-,1608
PCW11	AH39-00241A	LEAD CONNECTOR ASSY	MAX-L65,1007,#22,-,1	AC19	2203-005065	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,1608
PD1	0402-000127	DIODE-RECTIFIER	1N4002,100V,1A,DO-41,TP	AC2	2401-000650	C-AL	2.2uF,20%,50V,GP,TP,3.5x5,2.5
PD15A	0402-000127	DIODE-RECTIFIER	1N4002,100V,1A,DO-41,TP	AC20	2203-005065	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,1608
PD31	0401-000005	DIODE-SWITCHING	1N4148,75V,150MA,DO-35,T	AC21	2401-002335	C-AL	1000uF,20%,63VLZ,BK,16x40,5mm
PIC7	1203-001697	IC-POS,FIXED REG.	78R08,TO-220,4P,-,PLA	AC22	2401-000230	C-AL	100uF,20%,100V,GP,TP,12.5x20mm
PPR1	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	AC23	2401-001324	C-AL	0.47UF,20%,50V,GPBK,3X5,2.5
PQ40	0501-000422	TR-SMALL SIGNAL	KTA1273,P,NP,-30V,-30V,-2	AC24	2401-001324	C-AL	0.47UF,20%,50V,GPBK,3X5,2.5
PQ41	0501-002409	TR-SMALL SIGNAL	KT C945B,NPN,625MW,TO-92,	AC25	2401-000213	C-AL	100nF,20%,50V,GP,TP,3x5,2.5
PQ43	0501-000422	TR-SMALL SIGNAL	KTA1273,P,NP,-30V,-30V,-2	AC26	2401-000213	C-AL	100nF,20%,50V,GP,TP,3x5,2.5
PQ44	0501-002409	TR-SMALL SIGNAL	KT C945B,NPN,625MW,TO-92,	AC27	2203-001408	C-CER,CHIP	0.27nF,5%,50V,NP0,TP,1608
PR14	2003-000690	R-METAL OXIDE(S)	4.7ohm,5%,2W,AA,TP,4x12	AC28	2203-005218	C-CER,CHIP	470nF,10%,50V,X7R,TP,3216,-
PR15	2003-000690	R-METAL OXIDE(S)	4.7ohm,5%,2W,AA,TP,4x12	AC29	2301-000375	C-FILM,LEAD-PEF	100nF,5%,50V,TP,11x12.5x
PR17	2003-000775	R-METAL OXIDE(S)	68ohm,5%,1W,AA,TP,3.3x9	AC3	2203-005148	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608
PR18	2001-000786	R-CARBON	47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	AC30	2203-005218	C-CER,CHIP	470nF,10%,50V,X7R,TP,3216,-
PR19	2001-000449	R-CARBON	2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	AC31	2401-001324	C-AL	0.47UF,20%,50V,GPBK,3X5,2.5
PR20	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	AC32	2401-001324	C-AL	0.47UF,20%,50V,GPBK,3X5,2.5
PR23	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	AC33	2203-001408	C-CER,CHIP	0.27nF,5%,50V,NP0,TP,1608
PR25	2001-000449	R-CARBON	2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	AC34	2401-000213	C-AL	100nF,20%,50V,GP,TP,3x5,2.5
PR3	2001-000449	R-CARBON	2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	AC35	2203-005218	C-CER,CHIP	470nF,10%,50V,X7R,TP,3216,-
PR32	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	AC36	2301-000375	C-FILM,LEAD-PEF	100nF,5%,50V,TP,11x12.5x
PR33	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	AC37	2305-000412	C-FILM,LEAD-PEF	470nF,5%,63V,TP,-,5mm
PR40	2001-000522	R-CARBON	22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	AC38	2203-001137	C-CER,CHIP	68nF,+80-20%,50V,Y5V,TP,2012,
PR41	2001-000449	R-CARBON	2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	AC39	2301-000375	C-FILM,LEAD-PEF	100nF,5%,50V,TP,11x12.5x
PR42	2001-000660	R-CARBON	33KOHM,5%,1/8W,AA,TP,1.8X3.2MM	AC4	2203-001126	C-CER,CHIP	0.68nF,10%,50V,X7R,1608
PR43	2003-000701	R-METAL OXIDE(S)	470ohm,5%,2W,AA,TP,4x12	AC40	2203-001137	C-CER,CHIP	68nF,+80-20%,50V,Y5V,TP,2012,
PR45	2001-001153	R-CARBON(S)	47OHM,5%,1/2W,AA,TP,2.4X6.4M	AC41	2203-001137	C-CER,CHIP	68nF,+80-20%,50V,Y5V,TP,2012,
PR46	2001-001153	R-CARBON(S)	47OHM,5%,1/2W,AA,TP,2.4X6.4M	AC42	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,1608
PR47	2001-000003	R-CARBON	330ohm,5%,1/8W,AA,TP,1.8x3.2mm	AC43	2203-001137	C-CER,CHIP	68nF,+80-20%,50V,Y5V,TP,2012,
PR48	2001-000890	R-CARBON	6.8KOHM,5%,1/8W,AA,TP,1.8X3.2M	AC44	2203-001137	C-CER,CHIP	68nF,+80-20%,50V,Y5V,TP,2012,
PR49	2001-000613	R-CARBON	3.9KOHM,5%,1/8W,AA,TP,1.8X3.2M	AC45	2203-001137	C-CER,CHIP	68nF,+80-20%,50V,Y5V,TP,2012,
PR4A	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	AC46	2301-000375	C-FILM,LEAD-PEF	100nF,5%,50V,TP,11x12.5x
PR4B	2001-000449	R-CARBON	2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	AC47	2305-000412	C-FILM,LEAD-PEF	470nF,5%,63V,TP,-,5mm
PR50	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	AC48	2203-001126	C-CER,CHIP	0.68nF,10%,50V,X7R,1608
PZD01	0403-000139	DIODE-ZENER	1N4734A,5%,1000MW,DO-41,TP	AC5	2203-001126	C-CER,CHIP	0.68nF,10%,50V,X7R,1608
PZD02	0403-000139	DIODE-ZENER	1N4734A,5%,1000MW,DO-41,TP	AC50	2203-005218	C-CER,CHIP	470nF,10%,50V,X7R,TP,3216,-
PZD03	0403-001036	DIODE-ZENER	1N4745A,5%,1000MW,DO-41,TP	AC51	2401-001975	C-AL	47uF,20%,16V,GP,TP,5x11mm,5mm
PZD04	0403-001036	DIODE-ZENER	1N4745A,5%,1000MW,DO-41,TP	AC52	2401-001975	C-AL	47uF,20%,16V,GP,TP,5x11mm,5mm
PZD05	0403-000142	DIODE-ZENER	1N4736A,6.46-7.14(5%),1000MW	AC55	2305-000412	C-FILM,LEAD-PEF	470nF,5%,63V,TP,-,5mm
TC1	2401-000480	C-AL	10uF,20%,50V,GP,TP,5x11.5				
TC20	2202-002037	C-CERAMIC,MLC-AXIAL	100nF,80-20%,50V,Y5V				
TC3	2202-000121	C-CERAMIC,MLC-AXIAL	0.1nF,10%,50V,Y5P,-				

Location no.	Code no.	Description & Specification	Remarks	Location no.	Code no.	Description & Specification	Remarks
AC56	2305-000412	C-FILM,LEAD-PEF	470nF,5%,63V,TP,-5mm	AR40	2007-007069	R-CHIP	0.05OHM,1%,1W,TP,6432
AC58	2203-001034	C-CER,CHIP	5.6nF,10%,50V,X7R,TP,1608,-	AR41	2003-000473	R-METAL OXIDE(S)	10ohm,5%,3W,AA,TP,6x16m
AC6	2203-001052	C-CER,CHIP	0.56nF,10%,50V,X7R,TP,1608	AR42	2007-000094	R-CHIP	22Kohm,5%,1/10W,TP,1608
AC61	2401-000385	C-AL	10uF,20%,100V,GP,TP,6.3x11,5	AR43	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608
AC62	2401-000385	C-AL	10uF,20%,100V,GP,TP,6.3x11,5	AR44	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608
AC63	2401-000385	C-AL	10uF,20%,100V,GP,TP,6.3x11,5	AR45	2007-007069	R-CHIP	0.05OHM,1%,1W,TP,6432
AC64	2401-000385	C-AL	10uF,20%,100V,GP,TP,6.3x11,5	AR46	2003-000473	R-METAL OXIDE(S)	10ohm,5%,3W,AA,TP,6x16m
AC66	2203-005148	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	AR47	2007-000094	R-CHIP	22Kohm,5%,1/10W,TP,1608
AC67	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,1608	AR48	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608
AC68	2203-000357	C-CER,CHIP	0.15nF,5%,50V,COG,TP,1608	AR5	2007-000125	R-CHIP	3.9Kohm,5%,1/10W,TP,1608
AC69	2203-000405	C-CER,CHIP	0.18nF,5%,50V,COG,TP,1608	AR53	2007-000075	R-CHIP	220ohm,5%,1/10W,TP,1608
AC7	2203-001052	C-CER,CHIP	0.56nF,10%,50V,X7R,TP,1608	AR55	2007-000075	R-CHIP	220ohm,5%,1/10W,TP,1608
AC70	2203-000357	C-CER,CHIP	0.15nF,5%,50V,COG,TP,1608	AR57	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608
AC71	2203-000405	C-CER,CHIP	0.18nF,5%,50V,COG,TP,1608	AR58	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608
AC76	2203-005065	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,1608	AR59	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608
AC78	2203-000357	C-CER,CHIP	0.15nF,5%,50V,COG,TP,1608	AR6	2007-000102	R-CHIP	100Kohm,5%,1/10W,TP,1608
AC8	2203-001126	C-CER,CHIP	0.68nF,10%,50V,X7R,1608	AR60	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608
AC80	2203-000357	C-CER,CHIP	0.15nF,5%,50V,COG,TP,1608	AR61	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608
AC9	2203-005148	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	AR62	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608
ACW1	AH39-00765A	LEAD CONNECTOR	MAX-DC650,WIRE,-,12,160MM	AR66	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608
AD1	0401-001090	DIODE-SWITCHING	1SS355,80V,100MA,SOD-323	AR67	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608
AD2	0401-001090	DIODE-SWITCHING	1SS355,80V,100MA,SOD-323	AR68	2007-000947	R-CHIP	47ohm,5%,1/8W,TP,2012
AD3	0401-001090	DIODE-SWITCHING	1SS355,80V,100MA,SOD-323	AR69	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608
AD4	0401-001090	DIODE-SWITCHING	1SS355,80V,100MA,SOD-323	AR7	2007-000102	R-CHIP	100Kohm,5%,1/10W,TP,1608
AD5	0401-001090	DIODE-SWITCHING	1SS355,80V,100MA,SOD-323	AR70	2007-000947	R-CHIP	47ohm,5%,1/8W,TP,2012
AD6	2007-000102	R-CHIP	100Kohm,5%,1/10W,TP,1608	AR71	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608
AFQ1/AFQ3	0505-000177	FET-SILICON	FQFP15P12,P,-120V,15A,0.2OHM	AR72	2007-000097	R-CHIP	47Kohm,5%,1/10W,TP,1608
AFQ2/AFQ4	0505-000320	FET-SILICON	FQFP32N12V2,N,120V,32A,0.050	AR73	2007-000097	R-CHIP	47Kohm,5%,1/10W,TP,1608
AJ1	3716-001179	TERMINAL-BLOCK	SOLDER,4P,6.3MM,60V,7A	AR74	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608
AL1	AH27-00058A	COIL CHOKE	ID15-15,MM-ZJ9,15,-,-,30mH#,-	AR75	2007-000092	R-CHIP	15Kohm,5%,1/10W,TP,1608
AL2	AH27-00058A	COIL CHOKE	ID15-15,MM-ZJ9,15,-,-,30mH#,-	AR76	2007-000309	R-CHIP	10ohm,5%,1/10W,TP,1608
APQ1	0501-000341	TR-SMALL SIGNAL	KSC1623-L,NPN,200mW,SOT-	AR77	2007-000309	R-CHIP	10ohm,5%,1/10W,TP,1608
APQ2	0501-000341	TR-SMALL SIGNAL	KSC1623-L,NPN,200mW,SOT-	AR78	2007-000947	R-CHIP	47ohm,5%,1/8W,TP,2012
APRR1	2007-000097	R-CHIP	47Kohm,5%,1/10W,TP,1608	AR8	2007-000081	R-CHIP	2.7Kohm,5%,1/10W,TP,1608
AQ1	0501-000341	TR-SMALL SIGNAL	KSC1623-L,NPN,200mW,SOT-	AR80	2007-000947	R-CHIP	47ohm,5%,1/8W,TP,2012
AQ10	0501-000341	TR-SMALL SIGNAL	KSC1623-L,NPN,200mW,SOT-	AR9	2007-000125	R-CHIP	3.9Kohm,5%,1/10W,TP,1608
AQ2	0501-000002	TR-SMALL SIGNAL	KS812,P,NP,150MW,SOT-23,	AZD1	0403-001464	DIODE-ZENER	UDZS12B,11.74-12.24V,200MW,S
AQ3	0501-000341	TR-SMALL SIGNAL	KSC1623-L,NPN,200mW,SOT-	AZD2	0403-001464	DIODE-ZENER	UDZS12B,11.74-12.24V,200MW,S
AQ4	0501-000002	TR-SMALL SIGNAL	KS812,P,NP,150MW,SOT-23,	AZD3	0403-001464	DIODE-ZENER	UDZS12B,11.74-12.24V,200MW,S
AQ5	0501-000002	TR-SMALL SIGNAL	KS812,P,NP,150MW,SOT-23,	AZD4	0403-001464	DIODE-ZENER	UDZS12B,11.74-12.24V,200MW,S
AQ6	0501-000341	TR-SMALL SIGNAL	KSC1623-L,NPN,200mW,SOT-	B1	3811-000389	WIRE-NO SHEATH CU	SPCW,300V,52.4mm,1/0.5
AQ7	0501-000341	TR-SMALL SIGNAL	KSC1623-L,NPN,200mW,SOT-	B2	3811-000389	WIRE-NO SHEATH CU	SPCW,300V,52.4mm,1/0.5
AQ8	0501-000002	TR-SMALL SIGNAL	KS812,P,NP,150MW,SOT-23,	B3	3811-000389	WIRE-NO SHEATH CU	SPCW,300V,52.4mm,1/0.5
AR1	2007-000094	R-CHIP	22Kohm,5%,1/10W,TP,1608	B4	3811-000389	WIRE-NO SHEATH CU	SPCW,300V,52.4mm,1/0.5
AR10	2007-000106	R-CHIP	220Kohm,5%,1/10W,TP,1608	EMC1	2203-000260	C-CER,CHIP	10nF,10%,50V,X7R,TP,2012
AR11	2007-000063	R-CHIP	150Kohm,1%,1/10W,TP,1608	EMC2	2203-000260	C-CER,CHIP	10nF,10%,50V,X7R,TP,2012
AR12	2007-000094	R-CHIP	22Kohm,5%,1/10W,TP,1608	EMC3	2203-000260	C-CER,CHIP	10nF,10%,50V,X7R,TP,2012
AR13	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	EMC4	2203-000260	C-CER,CHIP	10nF,10%,50V,X7R,TP,2012
AR14	2007-000094	R-CHIP	22Kohm,5%,1/10W,TP,1608	EMC5	2203-000260	C-CER,CHIP	10nF,10%,50V,X7R,TP,2012
AR15	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608	EMC6	2203-000260	C-CER,CHIP	10nF,10%,50V,X7R,TP,2012
AR16	2007-000094	R-CHIP	22Kohm,5%,1/10W,TP,1608	EMC7	2203-000260	C-CER,CHIP	10nF,10%,50V,X7R,TP,2012
AR17	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608	EMC8	6003-001375	SCREW-TAPTITE	BH+,B,M3,L8,ZPC(YEL),SWRC
AR18	2007-000124	R-CHIP	2.2Kohm,5%,1/10W,TP,1608	AH62-00142B	HEAT SINK-AMP	MAX-DC650,AL,-,-,-,-,-	
AR19	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	AH63-01066A	SHIELD-AMP-TOP	MAX-DC650,SECC,-,-,-,-,-	
AR2	2007-000094	R-CHIP	22Kohm,5%,1/10W,TP,1608	AH63-01067A	SHIELD-AMP-BOTTOM	MAX-DC650,SECC,-,-,-,-,-	
AR20	2007-000094	R-CHIP	22Kohm,5%,1/10W,TP,1608	AH65-30010A	CLAMP-WIRE	-,-,-,-,-	
AR21	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608	AH92-02330H	ASSY PCB-FRONT	MAX-C670,-	
AR22	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608	CON12	3711-002813	CONNECTOR-HEADER	BOX,12P,1R,2mm,STRAIGHT
AR23	2007-000104	R-CHIP	150Kohm,5%,1/10W,TP,1608	CON21	AH39-00734A	CONNECT WIRE	MAX-DS990,#28,1007,12,150MM
AR24	2007-000092	R-CHIP	15Kohm,5%,1/10W,TP,1608	PC1	2201-002128	C-CERAMIC,DISC	4.7NF,20%,400V,Y5U,BK,15X
AR25	2007-000107	R-CHIP	470Kohm,5%,1/10W,TP,1608	PC2	2201-002128	C-CERAMIC,DISC	4.7NF,20%,400V,Y5U,BK,15X
AR26	2007-000309	R-CHIP	10ohm,5%,1/10W,TP,1608	PCW1	3711-000190	CONNECTOR-HEADER	1WALL,2P,1R,7.92MM,STRA
AR27	2007-000309	R-CHIP	10ohm,5%,1/10W,TP,1608	PCW2	3711-000658	CONNECTOR-HEADER	BOX,12P,1R,2.5mm,STRAIG
AR28	2007-000107	R-CHIP	470Kohm,5%,1/10W,TP,1608	PD1	0402-000127	DIODE-RECTIFIER	1N4002,100V,1A,DO-41,TP
AR29	2007-000104	R-CHIP	150Kohm,5%,1/10W,TP,1608	PPF2	3602-000147	FUSE-CLIP	250V,7.5A,30mohm
AR3	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	PPF2_1	3602-000147	FUSE-CLIP	250V,7.5A,30mohm
AR30	2007-000092	R-CHIP	15Kohm,5%,1/10W,TP,1608	PPF3	3601-000301	FUSE-CARTRIDGE	250V,6.3A,TIME-LAG,GLASS,
AR31	2007-000104	R-CHIP	150Kohm,5%,1/10W,TP,1608	PPF3_1	3602-000147	FUSE-CLIP	250V,7.5A,30mohm
AR32	2007-000092	R-CHIP	15Kohm,5%,1/10W,TP,1608	PPF4	3602-000147	FUSE-CLIP	250V,7.5A,30mohm
AR33	2007-000107	R-CHIP	470Kohm,5%,1/10W,TP,1608	PPF4_1	3602-000147	FUSE-CLIP	250V,7.5A,30mohm
AR34	2007-000309	R-CHIP	10ohm,5%,1/10W,TP,1608	PPF5	3602-000147	FUSE-CLIP	250V,7.5A,30mohm
AR35	2007-000107	R-CHIP	470Kohm,5%,1/10W,TP,1608	PPF5_1	3602-000147	FUSE-CLIP	250V,7.5A,30mohm
AR36	2007-000309	R-CHIP	10ohm,5%,1/10W,TP,1608	PPR1	2008-000003	R-FUSIBLE	0.22ohm,5%,1/2W,AA,TP,3.5x9.4m
AR37	2007-000104	R-CHIP	150Kohm,5%,1/10W,TP,1608	PPR2	2008-000003	R-FUSIBLE	0.22ohm,5%,1/2W,AA,TP,3.5x9.4m
AR38	2007-000092	R-CHIP	15Kohm,5%,1/10W,TP,1608	PSFS2	3602-000147	FUSE-CLIP	250V,7.5A,30mohm
AR39	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608				
AR4	2007-000081	R-CHIP	2.7Kohm,5%,1/10W,TP,1608				

Location no.	Code no.	Description & Specification	Remarks	Location no.	Code no.	Description & Specification	Remarks
PSFS2_1	3602-000147	FUSE-CLIP	250V,7.5A,30mohm	UR113	2001-000786	R-CARBON	47KOHM,5%,18W,AA,TP;1.8X3.2MM
RELAY	3501-001197	RELAY-MINIATURE	12VDC,0.54W,44.4mA,1FORM	UR114	2001-000786	R-CARBON	47KOHM,5%,18W,AA,TP;1.8X3.2MM
UC1	2201-000565	C-CERAMIC,DISC	47nF,+80-20%, τ ,12.5x4mm	UR115	2001-000786	R-CARBON	47KOHM,5%,18W,AA,TP;1.8X3.2MM
UC10	2201-000017	C-CERAMIC,DISC	1nF,10%,50V,Y5P,-,5x3.5mm	UR116	2001-000786	R-CARBON	47KOHM,5%,18W,AA,TP;1.8X3.2MM
UC11	2400-000123	C-EDL	47000uF,4uA,5.5V,-,BK,-,5mm	UR117	2001-000786	R-CARBON	47KOHM,5%,18W,AA,TP;1.8X3.2MM
UC12	2401-001238	C-AL	4.7uF,20%,25V,GPBK,3x5,1mm	UR118	2001-000786	R-CARBON	47KOHM,5%,18W,AA,TP;1.8X3.2MM
UC12	2201-000472	C-CERAMIC,DISC	0.33NF,5%,50V,SL,TP8.5X3	UR119	2001-000786	R-CARBON	47KOHM,5%,18W,AA,TP;1.8X3.2MM
UC12A	2401-000407	C-AL	10uF,20%,16V,GP,TP3.5X5,2.5	UR12	2001-001178	R-CARBON(S)	680OHM,5%,12W,AA,TP2.4X6.4
UC13	2201-000565	C-CERAMIC,DISC	47nF,+80-20%, τ ,12.5x4mm	UR120	2001-000290	R-CARBON	10KOHM,5%,18W,AA,TP;1.8X3.2MM
UC14	2201-000565	C-CERAMIC,DISC	47nF,+80-20%, τ ,12.5x4mm	UR121	2001-000290	R-CARBON	10KOHM,5%,18W,AA,TP;1.8X3.2MM
UC16	2401-000240	C-AL	100uF,20%,10V,GP,TP5x11,5	UR122	2001-000734	R-CARBON	4.7KOHM,5%,18W,AA,TP;1.8X3.2M
UC17	2401-000042	C-AL	100uF,20%,16V,GP,TP6.3x7,5	UR123	2001-000734	R-CARBON	4.7KOHM,5%,18W,AA,TP;1.8X3.2M
UC18	2401-000480	C-AL	10uF,20%,50V,GP,TP5x11,5	UR124	2001-000405	R-CARBON	180OHM,5%,18W,AA,TP;1.8X3.2MM
UC2	2201-000565	C-CERAMIC,DISC	47nF,+80-20%, τ ,12.5x4mm	UR125	2001-000734	R-CARBON	4.7KOHM,5%,18W,AA,TP;1.8X3.2M
UC20	2201-000389	C-CERAMIC,DISC	0.022NF,5%,50V,COG,TP5X3	UR126	2001-000786	R-CARBON	47KOHM,5%,18W,AA,TP;1.8X3.2MM
UC21	2401-000480	C-AL	10uF,20%,50V,GP,TP5x11,5	UR127	2001-000786	R-CARBON	47KOHM,5%,18W,AA,TP;1.8X3.2M
UC22	2202-000205	C-CERAMIC,MLC-AXIAL	22pF,5%,50V,SL,TP1	UR128	2001-000734	R-CARBON	4.7KOHM,5%,18W,AA,TP;1.8X3.2M
UC24	2401-001364	C-AL	470uF,20%,16V,GP,TP;10x12.5,5	UR129	2001-000786	R-CARBON	47KOHM,5%,18W,AA,TP;1.8X3.2MM
UC2A	2201-000565	C-CERAMIC,DISC	47nF,+80-20%, τ ,12.5x4mm	UR13	2001-001178	R-CARBON(S)	680OHM,5%,12W,AA,TP2.4X6.4
UC2C	2201-000565	C-CERAMIC,DISC	47nF,+80-20%, τ ,12.5x4mm	UR130	2001-000362	R-CARBON	150OHM,5%,18W,AA,TP;1.8X3.2MM
UC3	2401-000240	C-AL	100uF,20%,10V,GP,TP5x11,5	UR131	2001-000786	R-CARBON	47KOHM,5%,18W,AA,TP;1.8X3.2MM
UC33	2202-000806	C-CERAMIC,MLC-AXIAL	220pF,10%,50V,Y5P,TP	UR132	2001-000786	R-CARBON	47KOHM,5%,18W,AA,TP;1.8X3.2MM
UC35	2202-002037	C-CERAMIC,MLC-AXIAL	100nF,80-20%,50V,Y5V	UR139	2001-000429	R-CARBON	1KOHM,5%,18W,AA,TP;1.8X3.2MM
UC35A	2202-002037	C-CERAMIC,MLC-AXIAL	100nF,80-20%,50V,Y5V	UR14	2001-001178	R-CARBON(S)	680OHM,5%,12W,AA,TP2.4X6.4
UC4	2401-000651	C-AL	2.2uF,20%,50V,GP,TP4x7,5	UR15	2001-000734	R-CARBON	4.7KOHM,5%,18W,AA,TP;1.8X3.2M
UC5	2201-000021	C-CERAMIC,DISC	100NF,+80-20%,50V,Y5V,TP	UR158	2001-000734	R-CARBON	4.7KOHM,5%,18W,AA,TP;1.8X3.2M
UC8	2202-000205	C-CERAMIC,MLC-AXIAL	22pF,5%,50V,SL,TP1	UR159	2001-000429	R-CARBON	1KOHM,5%,18W,AA,TP;1.8X3.2MM
UC7	2202-000205	C-CERAMIC,MLC-AXIAL	22pF,5%,50V,SL,TP1	UR16	2001-000290	R-CARBON	10KOHM,5%,18W,AA,TP;1.8X3.2MM
UC8	2201-000389	C-CERAMIC,DISC	0.022NF,5%,50V,COG,TP5X3	UR17	2001-000281	R-CARBON	100OHM,5%,18W,AA,TP;1.8X3.2MM
UC9	2401-000759	C-AL	220nF,20%,50V,GP,TP5x11mm,5mm	UR18	2001-000591	R-CARBON	3.3KOHM,5%,18W,AA,TP;1.8X3.2M
UCR1	2001-000290	R-CARBON	10KOHM,5%,18W,AA,TP;1.8X3.2MM	UR2	2001-000290	R-CARBON	10KOHM,5%,18W,AA,TP;1.8X3.2MM
UCW0	3708-000448	CONNECTOR-FPC/FFC/PIC	6P;1.25MM,STRAIGHT	UR20	2001-000221	R-CARBON	1.2KOHM,5%,18W,AA,TP;1.8X3.2M
UCW1	3708-001094	CONNECTOR-FPC/FFC/PIC	13P;1.25MM,STRAIGHT	UR21	2001-000258	R-CARBON	1.8KOHM,5%,18W,AA,TP;1.8X3.2M
UCW2	3708-000454	CONNECTOR-FPC/FFC/PIC	22P;1.25MM,STRAIGHT	UR22	2001-000472	R-CARBON	2.7KOHM,5%,18W,AA,TP;1.8X3.2M
UCW3	3708-000178	CONNECTOR-FPC/FFC/PIC	16P;1.25MM,ANGLE,S	UR24	2001-000281	R-CARBON	100OHM,5%,18W,AA,TP;1.8X3.2MM
UCW4	AH39-20008P	LEAD CONNECTOR ASSY	5264,5395,2P,250MM,1	UR25	2001-000429	R-CARBON	1KOHM,5%,18W,AA,TP;1.8X3.2MM
UCW5	3711-000814	CONNECTOR-HEADER	BOX,2P,1R,2.5mm,ANGLE,S	UR26	2001-000429	R-CARBON	1KOHM,5%,18W,AA,TP;1.8X3.2MM
UD13A	0401-000005	DIODE-SWITCHING	1N4148,75V,150MA,DO-35,T	UR27	2001-000290	R-CARBON	10KOHM,5%,18W,AA,TP;1.8X3.2MM
UD14A	0401-000005	DIODE-SWITCHING	1N4148,75V,150MA,DO-35,T	UR28	2001-000290	R-CARBON	10KOHM,5%,18W,AA,TP;1.8X3.2MM
UD16A	0401-000005	DIODE-SWITCHING	1N4148,75V,150MA,DO-35,T	UR29	2001-000281	R-CARBON	100OHM,5%,18W,AA,TP;1.8X3.2MM
UD17	0402-000127	DIODE-RECTIFIER	1N4002,100V,1A,DO-41,TP	UR3	2001-000258	R-CARBON	1.8KOHM,5%,18W,AA,TP;1.8X3.2M
UD18	0401-000005	DIODE-SWITCHING	1N4148,75V,150MA,DO-35,T	UR30	2001-000281	R-CARBON	100OHM,5%,18W,AA,TP;1.8X3.2MM
UD19	0402-000127	DIODE-RECTIFIER	1N4002,100V,1A,DO-41,TP	UR32	2001-000290	R-CARBON	10KOHM,5%,18W,AA,TP;1.8X3.2MM
UD20	0401-000005	DIODE-SWITCHING	1N4148,75V,150MA,DO-35,T	UR33	2001-000281	R-CARBON	100OHM,5%,18W,AA,TP;1.8X3.2MM
UD21	0401-000005	DIODE-SWITCHING	1N4148,75V,150MA,DO-35,T	UR37	2001-000290	R-CARBON	10KOHM,5%,18W,AA,TP;1.8X3.2MM
UD22	0401-000005	DIODE-SWITCHING	1N4148,75V,150MA,DO-35,T	UR38	2001-000290	R-CARBON	10KOHM,5%,18W,AA,TP;1.8X3.2MM
UD23	0402-000127	DIODE-RECTIFIER	1N4002,100V,1A,DO-41,TP	UR39	2001-000290	R-CARBON	10KOHM,5%,18W,AA,TP;1.8X3.2MM
UD24	0401-000005	DIODE-SWITCHING	1N4148,75V,150MA,DO-35,T	UR4	2001-000008	R-CARBON	15KOHM,5%,18W,AA,TP;1.8X3.2MM
UD25	0401-000005	DIODE-SWITCHING	1N4148,75V,150MA,DO-35,T	UR40	2001-000290	R-CARBON	10KOHM,5%,18W,AA,TP;1.8X3.2MM
UD25A	0401-000005	DIODE-SWITCHING	1N4148,75V,150MA,DO-35,T	UR41	2001-000290	R-CARBON	10KOHM,5%,18W,AA,TP;1.8X3.2MM
UD26	0401-000005	DIODE-SWITCHING	1N4148,75V,150MA,DO-35,T	UR44	2001-000290	R-CARBON	10KOHM,5%,18W,AA,TP;1.8X3.2MM
UIC1	0903-001273	IC-MICROCONTROLLER	LC87F67C8A,8BIT,QFP;1	UR47	2001-000850	R-CARBON	560KOHM,5%,18W,AA,TP;1.8X3.2M
UIC2	0609-001189	MODULE REMOCON	HORIZONTAL,16.4MM,TR	UR48	2001-000281	R-CARBON	100OHM,5%,18W,AA,TP;1.8X3.2MM
UIC3	1205-002635	IC-EXPANDER	LC709004A,MFP24P,300MIL,PLA	UR49	2001-000290	R-CARBON	10KOHM,5%,18W,AA,TP;1.8X3.2MM
UKK1	3404-000165	SWITCH-TACT	12V,50mA,160gf,6x6mm,SPST	UR5	2001-000660	R-CARBON	33KOHM,5%,18W,AA,TP;1.8X3.2MM
ULED6	0601-001238	LED	ROUND,RED,3.1mm,697nm,3.8x5.2mm	UR50	2001-000290	R-CARBON	10KOHM,5%,18W,AA,TP;1.8X3.2MM
UQ1	0501-002409	TR-SMALL SIGNAL	KTQ345B,NPN,625MW,T0-92	UR51	2001-000449	R-CARBON	2.2KOHM,5%,18W,AA,TP;1.8X3.2M
UQ10	0501-000303	TR-SMALL SIGNAL	KSAT733,PNP,250mW,T0-92,T	UR52	2001-000429	R-CARBON	1KOHM,5%,18W,AA,TP;1.8X3.2MM
UQ11	0504-000118	TR-DIGITAL	KSR1003,NPN,300MW,22K/22K,TO-	UR53	2001-000295	R-CARBON	10MOHM,5%,18W,AA,TP;1.8X3.2MM
UQ2	0501-000422	TR-SMALL SIGNAL	KTA1273,PNP,-30V,-30V,-2	UR54	2001-000290	R-CARBON	10KOHM,5%,18W,AA,TP;1.8X3.2MM
UQ3	0501-000422	TR-SMALL SIGNAL	KTA1273,PNP,-30V,-30V,-2	UR55	2001-000429	R-CARBON	1KOHM,5%,18W,AA,TP;1.8X3.2MM
UQ4	0501-000422	TR-SMALL SIGNAL	KTA1273,PNP,-30V,-30V,-2	UR56	2001-000290	R-CARBON	10KOHM,5%,18W,AA,TP;1.8X3.2MM
UQ5	0501-002409	TR-SMALL SIGNAL	KTQ345B,NPN,625MW,T0-92	UR57	2001-000290	R-CARBON	10KOHM,5%,18W,AA,TP;1.8X3.2MM
UQ6	0504-000118	TR-DIGITAL	KSR1003,NPN,300MW,22K/22K,TO-	UR58	2001-000435	R-CARBON	1MOHM,5%,18W,AA,TP;1.8X3.2MM
UQ7	0504-000118	TR-DIGITAL	KSR1003,NPN,300MW,22K/22K,TO-	UR59	2001-000290	R-CARBON	10KOHM,5%,18W,AA,TP;1.8X3.2MM
UQ9	0504-000118	TR-DIGITAL	KSR1003,NPN,300MW,22K/22K,TO-	UR6	2001-000008	R-CARBON	15KOHM,5%,18W,AA,TP;1.8X3.2MM
UR1	2001-000290	R-CARBON	10KOHM,5%,18W,AA,TP;1.8X3.2MM	UR60	2001-000290	R-CARBON	10KOHM,5%,18W,AA,TP;1.8X3.2MM
UR10	2001-000290	R-CARBON	10KOHM,5%,18W,AA,TP;1.8X3.2MM	UR61	2001-000290	R-CARBON	10KOHM,5%,18W,AA,TP;1.8X3.2MM
UR101	2001-000802	R-CARBON	5.6Kohm,5%,18W,AA,TP;1.8x3.2mm	UR62	2001-000290	R-CARBON	10KOHM,5%,18W,AA,TP;1.8X3.2MM
UR102	2001-000786	R-CARBON	47KOHM,5%,18W,AA,TP;1.8X3.2MM	UR63	2001-000290	R-CARBON	10KOHM,5%,18W,AA,TP;1.8X3.2MM
UR105	2001-000472	R-CARBON	2.7KOHM,5%,18W,AA,TP;1.8X3.2M	UR64	2001-000290	R-CARBON	10KOHM,5%,18W,AA,TP;1.8X3.2MM
UR106	2001-000411	R-CARBON	18KOHM,5%,18W,AA,TP;1.8X3.2MM	UR65	2001-000290	R-CARBON	10KOHM,5%,18W,AA,TP;1.8X3.2MM
UR109	2001-000786	R-CARBON	47KOHM,5%,18W,AA,TP;1.8X3.2MM	UR66	2001-000290	R-CARBON	10KOHM,5%,18W,AA,TP;1.8X3.2MM
UR11	2001-000241	R-CARBON	1.5KOHM,5%,18W,AA,TP;1.8X3.2M	UR67	2001-000290	R-CARBON	10KOHM,5%,18W,AA,TP;1.8X3.2MM
UR110	2001-000786	R-CARBON	47KOHM,5%,18W,AA,TP;1.8X3.2MM	UR68	2001-000290	R-CARBON	10KOHM,5%,18W,AA,TP;1.8X3.2MM
UR111	2001-000786	R-CARBON	47KOHM,5%,18W,AA,TP;1.8X3.2MM	UR69	2001-000290	R-CARBON	10KOHM,5%,18W,AA,TP;1.8X3.2MM
UR112	2001-000786	R-CARBON	47KOHM,5%,18W,AA,TP;1.8X3.2MM	UR7	2001-000281	R-CARBON	100OHM,5%,18W,AA,TP;1.8X3.2MM
				UR70	2001-000290	R-CARBON	10KOHM,5%,18W,AA,TP;1.8X3.2MM

Location no.	Code no.	Description & Specification	Remarks	Location no.	Code no.	Description & Specification	Remarks	
UR71	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	AH39-00320C	CBF COAXIAL CABLE	MAX-L68,110REC,-,1007#		
UR72	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	AH40-00087A	TUNER-FM/AM	MJ104MA1-55C,MAX-DJ750,FM,AM		
UR73	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	AH42-00019A	ANT LOOP	S0160BL-16,HT-DS665T,9uH,-,1KH		
UR74	2001-000786	R-CARBON	47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	AH59-01159S	REMOCON-ASSY	MAX-ZJ650,SAMSUNG,-,28KEY		
UR75	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X3.2MM					
UR76	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	AH59-01478B	DECK	-MAX-C550,-,D73,-,ONE MOT		
UR77	2001-000786	R-CARBON	47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	3101-001377	MOTOR-DC	2540RPM,12.6G.CM,5V,120MA		
UR8	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	3301-000132	CORE-FERRITE	AC,28.8x19.3x7.5mm,1400,290		
UR80	2001-000802	R-CARBON	5.6kohm,5%,1/8W,AA,TP,1.8x3.2m	3708-001955	CONNECTOR-FPC/FFC/PIC	8P,1MM,ANGLE,TIN,N		
UR81	2001-000786	R-CARBON	47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	AH62-30048A	HEAT SINK	PBSS,-,T0.8,-,KCD-11/22,-		
UR86	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M					
UR87	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	AH65-30010A	CLAMP-WIRE	*****		
UR89	2001-000786	R-CARBON	47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	AH91-60150C	ASSY CDP DECK	CMS-D73SG6(U)JVC,CMS-300D		
UR9	2001-000864	R-CARBON	56KOHM,5%,1/8W,AA,TP,1.8X3.2MM	3409-001078	SWITCH-LEAF	16Vdc,500mA,10gf,SPST		
UR90	2001-000522	R-CARBON	22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	AH30-00007A	PICK UP	SOH-AD3,-,100*80*45,D73SG6		
UR91	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	AH81-00614A	A/S-SHAFT-PU	-METAL,-,*****		
UR93	2001-000221	R-CARBON	1.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	AH81-00614B	A/S-SCREW	-METAL,AJ60-00601D,-,***		
UR93A	2001-000241	R-CARBON	1.5KOHM,5%,1/8W,AA,TP,1.8X3.2M	AH81-00614C	A/S-SCREW	-METAL,6003-000294,-,***		
UR93B	2001-000258	R-CARBON	1.8KOHM,5%,1/8W,AA,TP,1.8X3.2M	AH81-00614D	A/S-WASHER	-PBT,AJ60-00608A,-,***		
UR93C	2001-000472	R-CARBON	2.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	AH81-00614E	A/S-GEAR(C)	-PBT,AJ66-00006A,-,***		
UR94	2001-000241	R-CARBON	1.5KOHM,5%,1/8W,AA,TP,1.8X3.2M	AH81-00614F	A/S-GEAR(B)	-PBT,AJ66-00005A,-,***		
UR95	2001-000411	R-CARBON	18KOHM,5%,1/8W,AA,TP,1.8X3.2MM	AH81-00614G	A/S-GEAR(A)	-PBT,AJ66-00004A,-,***		
UR96	2001-000221	R-CARBON	1.2KOHM,5%,1/8W,AA,TP,1.8X3.2M	AH81-00614H	A/S-MOTOR-FEED	-,AJ31-00601C,-,***		
UR97	2001-000660	R-CARBON	33KOHM,5%,1/8W,AA,TP,1.8X3.2MM	AH81-00614J	A/S-MOTOR-PCB ASSY	-,AJ41-00601S,-,***		
UR98	2001-000660	R-CARBON	33KOHM,5%,1/8W,AA,TP,1.8X3.2MM	AH81-00614K	A/S-CONNECTOR	-,AJ37-00601A,-,***		
UR99	2001-000008	R-CARBON	15KOHM,5%,1/8W,AA,TP,1.8X3.2MM	AH92-02406A	ASSY PCB	MAX-C570,CDP,-		
USW10	3404-000165	SWITCH-TACT	12V,50mA,160gf,6x6mm,SPST	IC401	1003-001418	IC-MOTOR DRIVER	FAN8082,DIP,8P,-,1MA,S	
USW11	3404-000165	SWITCH-TACT	12V,50mA,160gf,6x6mm,SPST	XT201	2802-000211	RESONATOR-CERAMIC	16.93MHz,0.5%,TP,10.0x	
USW12	3404-000165	SWITCH-TACT	12V,50mA,160gf,6x6mm,SPST	CW101	3708-001252	CONNECTOR-FPC/FFC/PIC	16P,1MM,STRAIGHT-F	
USW13	3404-000165	SWITCH-TACT	12V,50mA,160gf,6x6mm,SPST	CW105	3708-001438	CONNECTOR-FPC/FFC/PIC	22P,1.25MM,ANGLE,S	
USW14	3404-000165	SWITCH-TACT	12V,50mA,160gf,6x6mm,SPST	CW107	3711-000906	CONNECTOR-HEADER	BOX,3P,1R,2MM,ANGLE,SN,	
USW17	3404-000165	SWITCH-TACT	12V,50mA,160gf,6x6mm,SPST	CW106	AH39-00345A	WIRE HARNESS	G3H1-3CD/VCD,-,8P,370MM,-	
USW18	3404-000165	SWITCH-TACT	12V,50mA,160gf,6x6mm,SPST	CW102	AH39-20561P	LEAD CONNECTOR ASSY	-,5295,PHR,6P,150mm,	
USW19	3404-000165	SWITCH-TACT	12V,50mA,160gf,6x6mm,SPST	D201	AH94-01870A	ASSY TAPG-CDP	MAX-C570,CDP	
USW2	3404-000165	SWITCH-TACT	12V,50mA,160gf,6x6mm,SPST	D201	0401-000008	DIODE-SWITCHING	DAN217,80V,100MA,SOT-23,	
USW20	3404-000165	SWITCH-TACT	12V,50mA,160gf,6x6mm,SPST	D301	0402-000151	DIODE-RECTIFIER	1N5392,100V,1.5A,DO-15,T	
USW21	3404-000165	SWITCH-TACT	12V,50mA,160gf,6x6mm,SPST	D305	0403-000334	DIODE-ZENER	UZ2.7BSA,2.54-2.75V,500MW,DO	
USW22	3404-000165	SWITCH-TACT	12V,50mA,160gf,6x6mm,SPST	D302	0403-000344	DIODE-ZENER	UZ3.9B,3.7-4.1V,500MW,DO-35,	
USW23	3404-000165	SWITCH-TACT	12V,50mA,160gf,6x6mm,SPST	D401	0403-000509	DIODE-ZENER	MTZJ5.6B,5.4-5.7V,500MW,DO-3	
USW24	3404-000165	SWITCH-TACT	12V,50mA,160gf,6x6mm,SPST	D306	0404-000144	DIODE-SCHOTTKY	SB01-05CP,50V,100MA,SOT-2	
USW25	3404-000165	SWITCH-TACT	12V,50mA,160gf,6x6mm,SPST	Q101	0501-000002	TR-SMALL SIGNAL	KS812,PNP,150MW,SOT-23,	
USW26	3404-000165	SWITCH-TACT	12V,50mA,160gf,6x6mm,SPST	Q303	0501-000010	TR-SMALL SIGNAL	KSC1008,NPN,800mW,TO-92,	
USW27	3404-000165	SWITCH-TACT	12V,50mA,160gf,6x6mm,SPST	Q302	0501-000010	TR-SMALL SIGNAL	KSC1008,NPN,800mW,TO-92,	
USW29	3404-000165	SWITCH-TACT	12V,50mA,160gf,6x6mm,SPST	IC301	1003-000179	IC-MOTOR DRIVER	KA9258D,SOP,28P,-,SINGLE	
USW3	3404-000165	SWITCH-TACT	12V,50mA,160gf,6x6mm,SPST	IC501	1105-001261	IC-DRAM	12L1616A,16bit,TSOP,50P,400MIL	
USW30	3404-000165	SWITCH-TACT	12V,50mA,160gf,6x6mm,SPST	IC101	1204-001799	IC-AUDIO PROCESSOR	KB9226,LQFP,48P,393MI	
USW33	3404-000165	SWITCH-TACT	12V,50mA,160gf,6x6mm,SPST	IC201	1204-002230	IC-DECODER	S5L9279X01,TQFP,100P,-,PLASTI	
USW34	3404-000165	SWITCH-TACT	12V,50mA,160gf,6x6mm,SPST	R108	2001-000331	R-CARBON	12KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
USW35	3404-000165	SWITCH-TACT	12V,50mA,160gf,6x6mm,SPST	R210	2001-000734	R-CARBON	4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M	
USW36	3404-000165	SWITCH-TACT	12V,50mA,160gf,6x6mm,SPST	R422	2001-000780	R-CARBON	470OHM,5%,1/8W,AA,TP,1.8X3.2MM	
USW4	3404-000165	SWITCH-TACT	12V,50mA,160gf,6x6mm,SPST	R423	2001-000780	R-CARBON	470OHM,5%,1/8W,AA,TP,1.8X3.2MM	
USW7	3404-000165	SWITCH-TACT	12V,50mA,160gf,6x6mm,SPST	R428	2001-000780	R-CARBON	470OHM,5%,1/8W,AA,TP,1.8X3.2MM	
USW8	3404-000165	SWITCH-TACT	12V,50mA,160gf,6x6mm,SPST	R122	2001-001000	R-CARBON	82KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UVR1	3406-001047	SWITCH-ROTARY	5V DC,0.5mA,-,12mm	R103	2007-000001	R-CHIP	68Kohm,5%,1/8W,TP,2012	
UVR3	3406-001050	SWITCH-ROTARY	5V DC,0.5mA,click,12mm	J18	2007-000029	R-CHIP	0ohm,5%,1/8W,TP,2012	
UVR5	3406-001050	SWITCH-ROTARY	5V DC,0.5mA,click,12mm	J21	2007-000029	R-CHIP	0ohm,5%,1/8W,TP,2012	
UVR7	2103-000341	VR-SEMI	2Kohm,30%,1/10W,TOP	J4	2007-000029	R-CHIP	0ohm,5%,1/8W,TP,2012	
UX2	2802-001174	RESONATOR-CERAMIC	10MHZ,0.5%,BK,8X3.5X3MM	J6	2007-000029	R-CHIP	0ohm,5%,1/8W,TP,2012	
VFD	AH07-00120A	VF DISPLAY	HNA-12LS06,MAX-ZJ650,90X40,1/	J7	2007-000029	R-CHIP	0ohm,5%,1/8W,TP,2012	
X-TAL1	2801-001394	CRYSTAL-UNIT	32.768KHz,20ppm,28-AAV,12.5	J9	2007-000029	R-CHIP	0ohm,5%,1/8W,TP,2012	
	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	J12	2007-000029	R-CHIP	0ohm,5%,1/8W,TP,2012	
				J13	2007-000029	R-CHIP	0ohm,5%,1/8W,TP,2012	
	2401-000118	C-AL	1000uF,20%,10V,GPTP,10x12.5,5	J14	2007-000029	R-CHIP	0ohm,5%,1/8W,TP,2012	
	3601-000263	FUSE-CARTRIDGE	250V,3.15A,TIME-LAG,GLASS	J17	2007-000029	R-CHIP	0ohm,5%,1/8W,TP,2012	
	3708-000193	CONNECTOR-FPC/FFC/PIC	17P,1.25MM,STRAIGH	J16	2007-000029	R-CHIP	0ohm,5%,1/8W,TP,2012	
	3811-000130	WIRE-PVC CU	BCWA,300V,60mm,7/0.16mm,#26,	J15	2007-000029	R-CHIP	0ohm,5%,1/8W,TP,2012	
	AH27-10001F	COIL-CHOKE	27uH,K,Q30,-,DR(6.5*7.5),-	J20	2007-000033	R-CHIP	0ohm,5%,1/4W,TP,3216	
	AH81-01520A	HOLDER-VFD	MAX-ZJ650,ABS,-,BLK,-					
	AH89-20042A	CUSHION-CUSHION	*****RCD-1800	J22	2007-000033	R-CHIP	0ohm,5%,1/4W,TP,3216	
				J3	2007-000033	R-CHIP	0ohm,5%,1/4W,TP,3216	
	3809-001332	CABLE-FLAT	30V,80C,140MM,16P,1.25MM,UL28	J5	2007-000033	R-CHIP	0ohm,5%,1/4W,TP,3216	
	3809-001434	CABLE-FLAT	30V,80C,100MM,12P,1.25MM,UL28	J8	2007-000033	R-CHIP	0ohm,5%,1/4W,TP,3216	
	3809-001661	CABLE-FLAT	30V,80,150mm,13P,1.25mm,-	J1	2007-000033	R-CHIP	0ohm,5%,1/4W,TP,3216	
	3809-001666	CABLE-FLAT	30V,80,150MM,17P,1.25MM,-					
	6801-001066	CARD-REGISTRATION	RUSSIA,CIS(RUSSIA),RUS	J10	2007-000033	R-CHIP	0ohm,5%,1/4W,TP,3216	
				J11	2007-000033	R-CHIP	0ohm,5%,1/4W,TP,3216	
	6801-001313	CARD-WARRANTY	LATVIA,SEO,LITHUANIAN,MOJO	J19	2007-000033	R-CHIP	0ohm,5%,1/4W,TP,3216	
	AH26-00331A	TRANS POWER	-MAX-ZC670,-,220V,-,***	J2	2007-000033	R-CHIP	0ohm,5%,1/4W,TP,3216	
	AH31-00029F	MOTOR FAN	C161NK10B0110,MX-GT88,0.15A,-,	R203L	2007-000282	R-CHIP	100Kohm,5%,1/8W,TP,2012	
	AH39-00257F	CBF-POWER CORD	MAX980,-,CP2,250V,2.5A,18	R202R	2007-000282	R-CHIP	100Kohm,5%,1/8W,TP,2012	

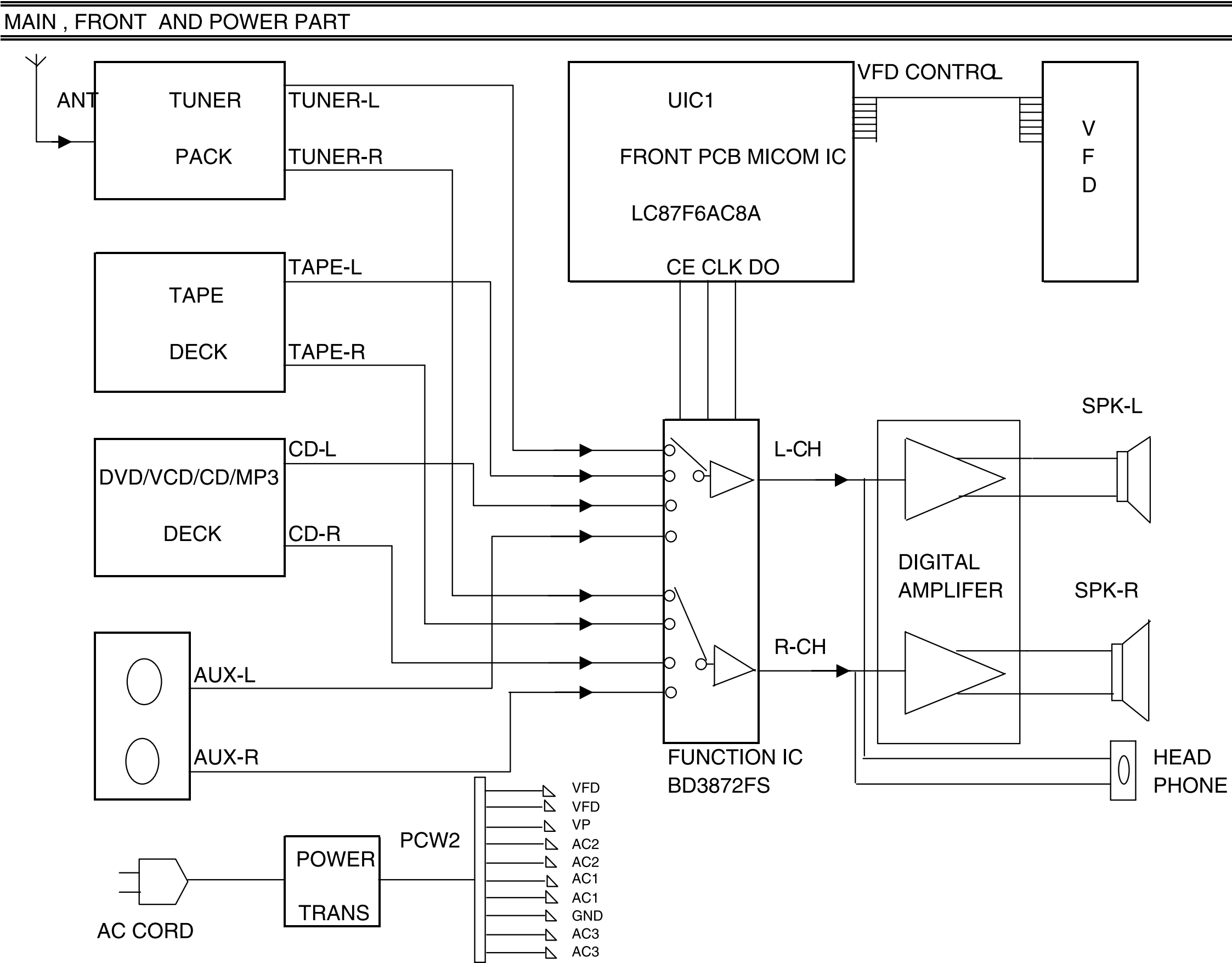
Location no.	Code no.	Description & Specification	Remarks	Location no.	Code no.	Description & Specification	Remarks
R201R	2007-000290	R-CHIP	100ohm,5%,1/8W,TP,2012	C141	2203-000239	C-CER,CHIP	0.1nF,5%,50V,COG,TP,2012
R204L	2007-000290	R-CHIP	100ohm,5%,1/8W,TP,2012	C142	2203-000239	C-CER,CHIP	0.1nF,5%,50V,COG,TP,2012
R211	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	C143	2203-000260	C-CER,CHIP	10nF,10%,50V,X7R,TP,2012
R110	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	C130	2203-000260	C-CER,CHIP	10nF,10%,50V,X7R,TP,2012
R109	2007-000300	R-CHIP	10Kohm,5%,1/8W,TP,2012	C117	2203-000260	C-CER,CHIP	10nF,10%,50V,X7R,TP,2012
R121	2007-000308	R-CHIP	10ohm,5%,1/8W,TP,2012	C115	2203-000260	C-CER,CHIP	10nF,10%,50V,X7R,TP,2012
R116	2007-000338	R-CHIP	120Kohm,5%,1/8W,TP,2012	C213L	2203-000495	C-CER,CHIP	2.2nF,10%,50V,X7R,2012
R115	2007-000338	R-CHIP	120Kohm,5%,1/8W,TP,2012	C209R	2203-000495	C-CER,CHIP	2.2nF,10%,50V,X7R,2012
R113	2007-000409	R-CHIP	15Kohm,5%,1/8W,TP,2012	C123	2203-000495	C-CER,CHIP	2.2nF,10%,50V,X7R,2012
R102	2007-000444	R-CHIP	180Kohm,5%,1/8W,TP,2012	C124	2203-000595	C-CER,CHIP	0.22nF,5%,50V,COG,2012
R101	2007-000457	R-CHIP	18Kohm,5%,1/8W,TP,2012	C132	2203-000609	C-CER,CHIP	22nF,10%,50V,X7R,TP,2012
R429	2007-000468	R-CHIP	1Kohm,5%,1/8W,TP,2012	C223	2203-000683	C-CER,CHIP	0.027nF,5%,50V,COG,2012
R420	2007-000468	R-CHIP	1Kohm,5%,1/8W,TP,2012	C222	2203-000683	C-CER,CHIP	0.027nF,5%,50V,COG,2012
R104	2007-000468	R-CHIP	1Kohm,5%,1/8W,TP,2012	C127	2203-000802	C-CER,CHIP	33nF,10%,50V,X7R,2012
R209	2007-000477	R-CHIP	1Mohm,5%,1/8W,TP,2012	C113	2203-000802	C-CER,CHIP	33nF,10%,50V,X7R,2012
R105	2007-000477	R-CHIP	1Mohm,5%,1/8W,TP,2012	C122	2203-000840	C-CER,CHIP	0.39nF,5%,50V,COG,TP,2012
R107	2007-000546	R-CHIP	20Kohm,5%,1/8W,TP,2012	C104	2203-000892	C-CER,CHIP	4.7nF,10%,50V,X7R,TP,2012
R213	2007-000572	R-CHIP	220ohm,5%,1/8W,TP,2012	C103	2203-000892	C-CER,CHIP	4.7nF,10%,50V,X7R,TP,2012
R119	2007-000653	R-CHIP	27Kohm,5%,1/8W,TP,2012	C116	2203-000919	C-CER,CHIP	470nF,+80-20%,16V,Y5V,TP,2012
R412	2007-000872	R-CHIP	4.7Kohm,5%,1/8W,TP,2012	C101	2203-001026	C-CER,CHIP	0.004nF,0.25pF,50V,SL,TP,2012
R411	2007-000872	R-CHIP	4.7Kohm,5%,1/8W,TP,2012	C121	2203-001064	C-CER,CHIP	56nF,10%,50V,COG,TP,2012
R421	2007-000931	R-CHIP	470ohm,5%,1/8W,TP,2012	C133	2203-001137	C-CER,CHIP	68nF,+80-20%,50V,Y5V,TP,2012
R425	2007-000931	R-CHIP	470ohm,5%,1/8W,TP,2012	C119	2203-001137	C-CER,CHIP	68nF,+80-20%,50V,Y5V,TP,2012
R426	2007-000931	R-CHIP	470ohm,5%,1/8W,TP,2012	C205	2203-001537	C-CER,CHIP	1nF,10%,50V,X7R,TP,2012
R427	2007-000931	R-CHIP	470ohm,5%,1/8W,TP,2012	C204	2203-001537	C-CER,CHIP	1nF,10%,50V,X7R,TP,2012
R408	2007-000931	R-CHIP	470ohm,5%,1/8W,TP,2012	C201	2203-001537	C-CER,CHIP	1nF,10%,50V,X7R,TP,2012
R216	2007-000931	R-CHIP	470ohm,5%,1/8W,TP,2012	C129	2203-001537	C-CER,CHIP	1nF,10%,50V,X7R,TP,2012
R217	2007-000931	R-CHIP	470ohm,5%,1/8W,TP,2012	C111	2203-001537	C-CER,CHIP	1nF,10%,50V,X7R,TP,2012
R406	2007-000931	R-CHIP	470ohm,5%,1/8W,TP,2012	C131	2203-001551	C-CER,CHIP	1.5nF,10%,50V,X7R,TP,2012
R407	2007-000931	R-CHIP	470ohm,5%,1/8W,TP,2012	C206R	2401-000027	C-AL	4.7uF,20%,50V,GP,TP5x11,5
R431	2007-000941	R-CHIP	47Kohm,5%,1/8W,TP,2012	C212L	2401-000027	C-AL	4.7uF,20%,50V,GP,TP5x11,5
R432	2007-000941	R-CHIP	47Kohm,5%,1/8W,TP,2012	C303	2401-000240	C-AL	100uF,20%,10V,GP,TP5x11,5
R433	2007-000941	R-CHIP	47Kohm,5%,1/8W,TP,2012	C304	2401-000240	C-AL	100uF,20%,10V,GP,TP5x11,5
R430	2007-000941	R-CHIP	47Kohm,5%,1/8W,TP,2012	C503	2401-000240	C-AL	100uF,20%,10V,GP,TP5x11,5
R114	2007-000941	R-CHIP	47Kohm,5%,1/8W,TP,2012	C221	2401-000240	C-AL	100uF,20%,10V,GP,TP5x11,5
R120	2007-000941	R-CHIP	47Kohm,5%,1/8W,TP,2012	C207	2401-000240	C-AL	100uF,20%,10V,GP,TP5x11,5
R409	2007-000941	R-CHIP	47Kohm,5%,1/8W,TP,2012	C210	2401-000240	C-AL	100uF,20%,10V,GP,TP5x11,5
R126	2007-001039	R-CHIP	56Kohm,5%,1/8W,TP,2012	C219	2401-000240	C-AL	100uF,20%,10V,GP,TP5x11,5
R125	2007-001039	R-CHIP	56Kohm,5%,1/8W,TP,2012	C118	2401-000480	C-AL	10uF,20%,50V,GP,TP5x11,5
R124	2007-001039	R-CHIP	56Kohm,5%,1/8W,TP,2012	C203	2401-000480	C-AL	10uF,20%,50V,GP,TP5x11,5
R123	2007-001039	R-CHIP	56Kohm,5%,1/8W,TP,2012	C302	2401-001102	C-AL	330uF,20%,16V,GP,TP8x11.5mm,5
R117	2007-001039	R-CHIP	56Kohm,5%,1/8W,TP,2012	C107	2401-001625	C-AL	6.8uF,20%,50V,GP,TP5x11,5
R112	2007-001039	R-CHIP	56Kohm,5%,1/8W,TP,2012	C135	2401-002042	C-AL	220uF,20%,10V,GP,TP6.3x11,5
R106	2007-001177	R-CHIP	8.2Kohm,5%,1/8W,TP,2012	C134	2401-002042	C-AL	220uF,20%,10V,GP,TP6.3x11,5
R129	2007-001195	R-CHIP	820Kohm,5%,1/8W,TP,2012	C128	2401-002042	C-AL	220uF,20%,10V,GP,TP6.3x11,5
R111	2007-001208	R-CHIP	82Kohm,5%,1/8W,TP,2012	C105	2401-002042	C-AL	220uF,20%,10V,GP,TP6.3x11,5
R118	2007-001208	R-CHIP	82Kohm,5%,1/8W,TP,2012	C114	2404-000148	C-TA,CHIP	1uF,10%,20V-,TP,3216
R127	2007-001208	R-CHIP	82Kohm,5%,1/8W,TP,2012	JW29	3811-000389	WIRE-NO SHEATH CU	SPCW,300V,52.4mm,1/0.5
R303	2007-001216	R-CHIP	82ohm,5%,1/8W,TP,2012	JW3	3811-000389	WIRE-NO SHEATH CU	SPCW,300V,52.4mm,1/0.5
R302	2007-001216	R-CHIP	82ohm,5%,1/8W,TP,2012	JW30	3811-000389	WIRE-NO SHEATH CU	SPCW,300V,52.4mm,1/0.5
R128	2007-001216	R-CHIP	82ohm,5%,1/8W,TP,2012	JW31	3811-000389	WIRE-NO SHEATH CU	SPCW,300V,52.4mm,1/0.5
C407	2202-002037	C-CERAMIC,MLC-AXIAL	100nF,80-20%,50V,Y5V	JW28	3811-000389	WIRE-NO SHEATH CU	SPCW,300V,52.4mm,1/0.5
C227	2203-000203	C-CER,CHIP	100nF,10%,16V,X7R,TP,2012,2mm	JW27	3811-000389	WIRE-NO SHEATH CU	SPCW,300V,52.4mm,1/0.5
C226	2203-000203	C-CER,CHIP	100nF,10%,16V,X7R,TP,2012,2mm	JW26	3811-000389	WIRE-NO SHEATH CU	SPCW,300V,52.4mm,1/0.5
C220	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	JW25	3811-000389	WIRE-NO SHEATH CU	SPCW,300V,52.4mm,1/0.5
C218	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	JW32	3811-000389	WIRE-NO SHEATH CU	SPCW,300V,52.4mm,1/0.5
C216	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	JW9	3811-000389	WIRE-NO SHEATH CU	SPCW,300V,52.4mm,1/0.5
C215	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	JW8	3811-000389	WIRE-NO SHEATH CU	SPCW,300V,52.4mm,1/0.5
C224	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	JW7	3811-000389	WIRE-NO SHEATH CU	SPCW,300V,52.4mm,1/0.5
C401	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	JW6	3811-000389	WIRE-NO SHEATH CU	SPCW,300V,52.4mm,1/0.5
C406	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	JW5	3811-000389	WIRE-NO SHEATH CU	SPCW,300V,52.4mm,1/0.5
C501	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	JW4	3811-000389	WIRE-NO SHEATH CU	SPCW,300V,52.4mm,1/0.5
C502	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	JW34	3811-000389	WIRE-NO SHEATH CU	SPCW,300V,52.4mm,1/0.5
C214	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	JW33	3811-000389	WIRE-NO SHEATH CU	SPCW,300V,52.4mm,1/0.5
C109	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	JW16	3811-000389	WIRE-NO SHEATH CU	SPCW,300V,52.4mm,1/0.5
C110	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	JW15	3811-000389	WIRE-NO SHEATH CU	SPCW,300V,52.4mm,1/0.5
C112	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	JW14	3811-000389	WIRE-NO SHEATH CU	SPCW,300V,52.4mm,1/0.5
C120	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	JW13	3811-000389	WIRE-NO SHEATH CU	SPCW,300V,52.4mm,1/0.5
C125	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	JW12	3811-000389	WIRE-NO SHEATH CU	SPCW,300V,52.4mm,1/0.5
C211	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	JW11	3811-000389	WIRE-NO SHEATH CU	SPCW,300V,52.4mm,1/0.5
C208	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	JW10	3811-000389	WIRE-NO SHEATH CU	SPCW,300V,52.4mm,1/0.5
C202	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	JW1	3811-000389	WIRE-NO SHEATH CU	SPCW,300V,52.4mm,1/0.5
C126	2203-000206	C-CER,CHIP	100nF,10%,50V,X7R,2012	JW17	3811-000389	WIRE-NO SHEATH CU	SPCW,300V,52.4mm,1/0.5
C231	2203-000239	C-CER,CHIP	0.1nF,5%,50V,COG,TP,2012	JW24	3811-000389	WIRE-NO SHEATH CU	SPCW,300V,52.4mm,1/0.5
C232	2203-000239	C-CER,CHIP	0.1nF,5%,50V,COG,TP,2012	JW23	3811-000389	WIRE-NO SHEATH CU	SPCW,300V,52.4mm,1/0.5
C230	2203-000239	C-CER,CHIP	0.1nF,5%,50V,COG,TP,2012	JW22	3811-000389	WIRE-NO SHEATH CU	SPCW,300V,52.4mm,1/0.5
C140	2203-000239	C-CER,CHIP	0.1nF,5%,50V,COG,TP,2012	JW21	3811-000389	WIRE-NO SHEATH CU	SPCW,300V,52.4mm,1/0.5

Location no.	Code no.	Description & Specification	Remarks
JW18	3811-000389	WIRE-NO SHEATH CU	SPCW,300V,52.4mm,1/0.5
JW19	3811-000389	WIRE-NO SHEATH CU	SPCW,300V,52.4mm,1/0.5
JW2	3811-000389	WIRE-NO SHEATH CU	SPCW,300V,52.4mm,1/0.5
JW20	3811-000389	WIRE-NO SHEATH CU	SPCW,300V,52.4mm,1/0.5
	AH87-01455A	ASSY-MECHA	MOLD BASE,SDM-R31,CD MODEL
	0205-001109	GREASE-HARD	DM5231,HARD,1KG/CAN
	AH59-01602B	SPEAKER SYSTEM-PS-C670	PS-C670,-,-,-,-,-
	AH81-01916A	A/S PART-PS-ZC670 SPK SYSTEM	PS-ZC670,-,-
	AH81-01916B	A/S PART-LEFT SPK SYSTEM	PS-ZC670,-,-,LE
	AH84-70003K	BADGE-BRAND	-ABS+STAMPING,-,-,L35,-,SIL
	AH81-01781D	A/S PART-FRONT PANEL L	PSDC650,HIPS,-,FR
	AH81-01781F	A/S PART-WOOFER RING	PSDC650,-,-,WOOFER
	AH81-01781G	A/S PART-GRILL PUNCHING	PSDC650,STEEL,-,-
	AH81-01781H	A/S PART-GRILL PUNCHING	PSDC650,STEEL,-,-
	AH81-01781N	A/S PART-PIEZO	PS-DC650,-,-,PIEZO,-,-,MI
	AH81-01916D	A/S PART-WOOFER UNIT	PS-ZC670,-,-,WOOFER
	AH81-01916M	A/S PART-LEFT CABINET	PS-C670G,WOOD,-,LE
	AH81-01916Q	A/S PART-TWEETER UNIT	PS-C670,-,-,TWEETE
	AH81-01916C	A/S PART-RIGHT SPK SYSTEM	PS-ZC670,-,-,R
	AH84-70003K	BADGE-BRAND	-ABS+STAMPING,-,-,L35,-,SIL
	AH81-01781E	A/S PART-FRONT PANEL R	PSDC650,HIPS,-,FR
	AH81-01781F	A/S PART-WOOFER RING	PSDC650,-,-,WOOFER
	AH81-01781G	A/S PART-GRILL PUNCHING	PSDC650,STEEL,-,-
	AH81-01781H	A/S PART-GRILL PUNCHING	PSDC650,STEEL,-,-
	AH81-01781N	A/S PART-PIEZO	PS-DC650,-,-,PIEZO,-,-,MI
	AH81-01916D	A/S PART-WOOFER UNIT	PS-ZC670,-,-,WOOFER
	AH81-01916N	A/S PART-RIGHT CABINET	PS-C670G,WOOD,-,R
	AH81-01916Q	A/S PART-TWEETER UNIT	PS-C670,-,-,TWEETE
	AH81-01916E	A/S PART-CUSHION	PS-ZC670,EPS,-,CUSHION,
	AH87-01111A	ASSY-CA'DECK	-MAX-S720,ASSY CA'DECK
	6003-001446	SCREW-TAPTITE	BH,+,-,M2,L5,Ni PLT
	AH39-00021A	LEAD CONNECTOR ASSY	UL1533#28,300MM,-,-,-
	AH39-20002D	LEAD CONNECTOR ASSY	5264,-,3P,300MM,2970
	AH59-01145A	DECK-CASSETTE	ADR268AMW1,MAXS650,-,-,DC1
	AH81-00101A	A/S-BELT SUB	34.1X1.1X1.1,6602-001055,-,-
	AH81-00102A	A/S-SOLENOID	DAT-05A1,MT75-00049A,-,-,-,-
	AH81-00141B	A/S-HEAD PB	MK10P-AA2N3,MT59-00041V,-,-,-
	AH81-00363A	A/S-ASSY MOTOR	ADR246DSW,MT91-15012J,-,-,-
	AH81-00364A	A/S-BELT MAIN1	ADR246DSW,6602-001056,-,-,-
	AH81-00365A	A/S-BELT MAIN2	ADR246DSW,6602-001057,-,-,-
	AH81-00368A	A/S-ASSY RP HEAD	ADR246FTW,MT91-11010T,-,-,-
	AH81-00413B	BRACKET-DECK	MAX-B550,SPT E 0.3T,0.3T,-,-

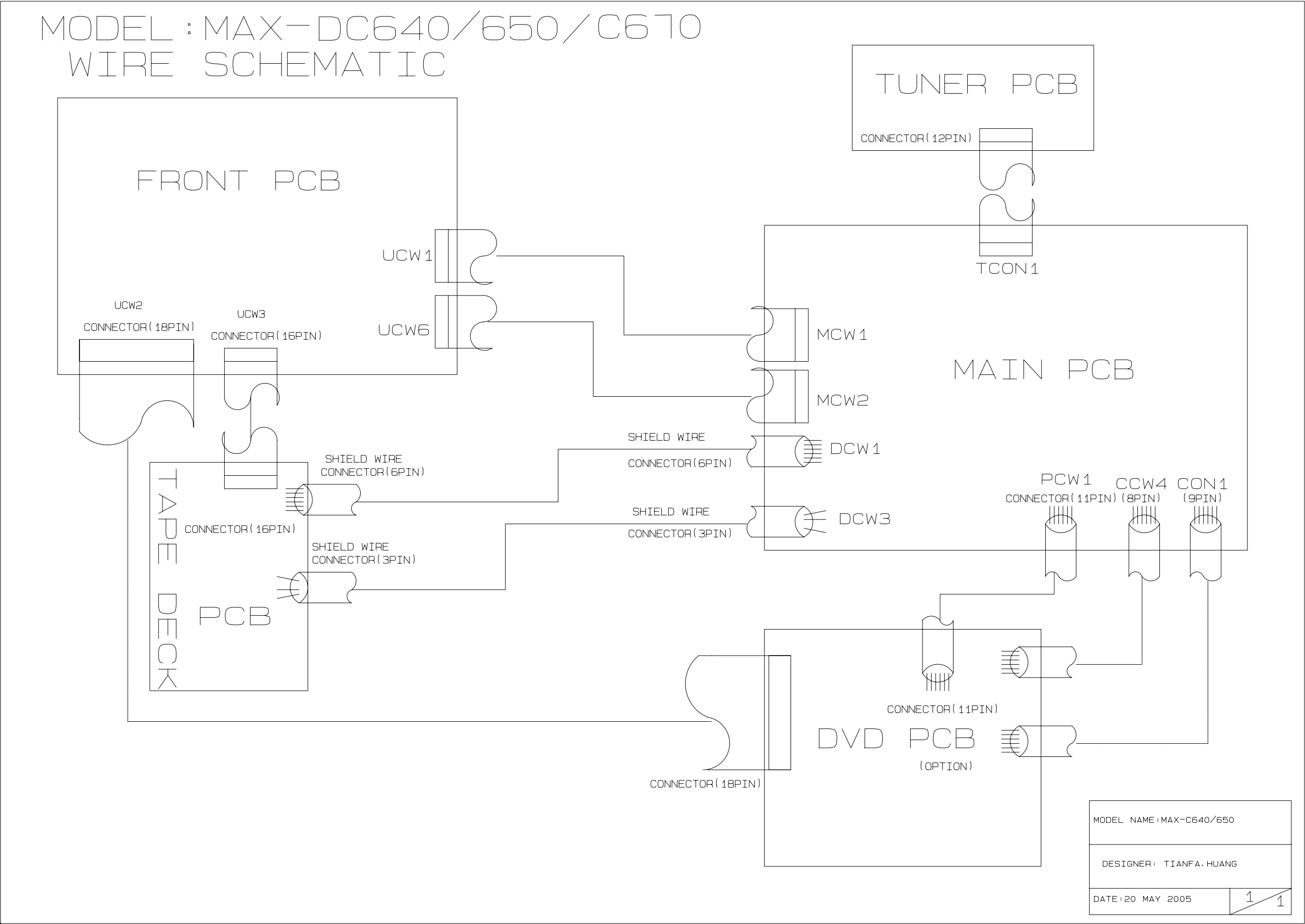
Location no.	Code no.	Description & Specification	Remarks
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9. Block Diagram

1. MAIN Part

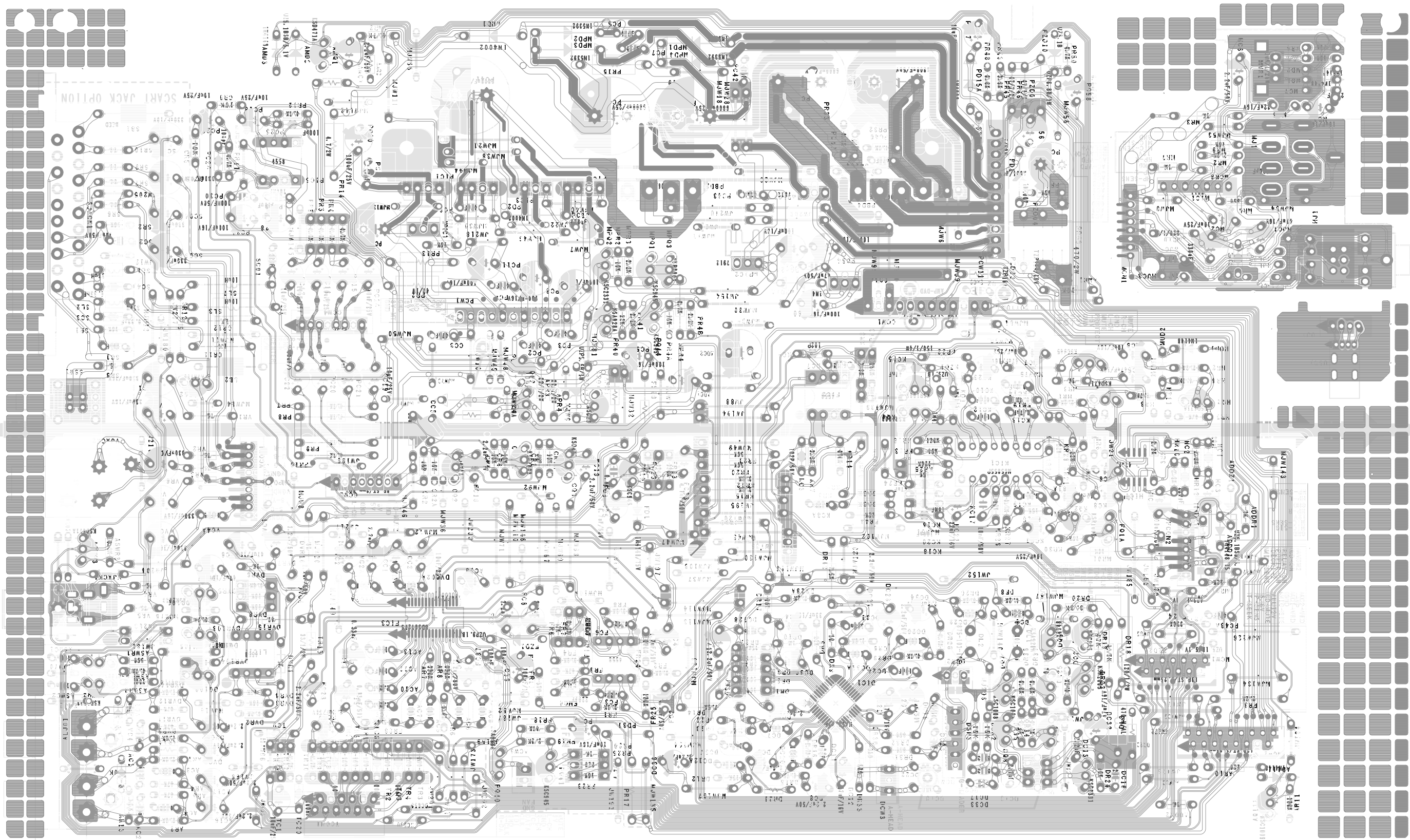


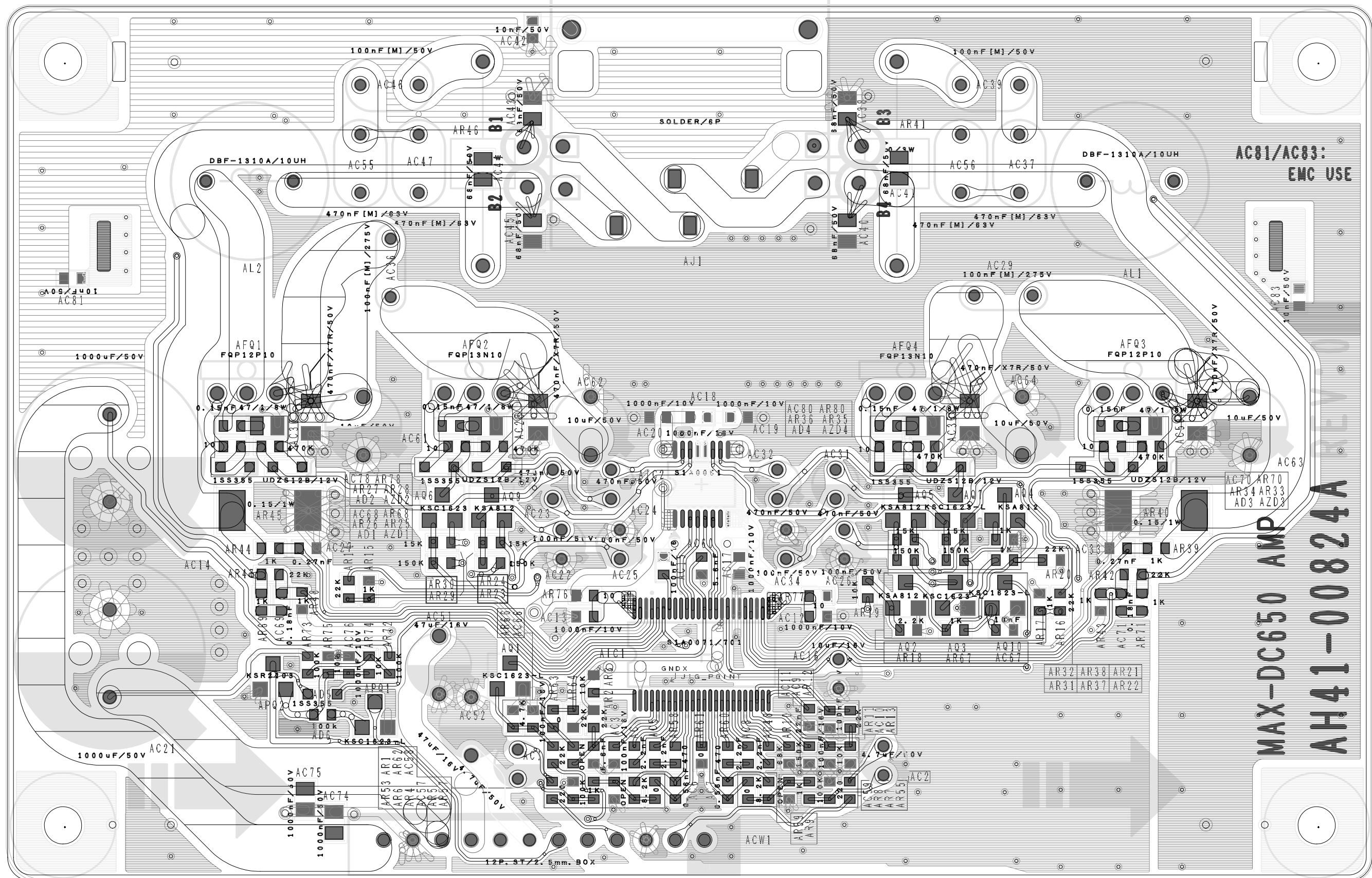
10. Wiring Diagram



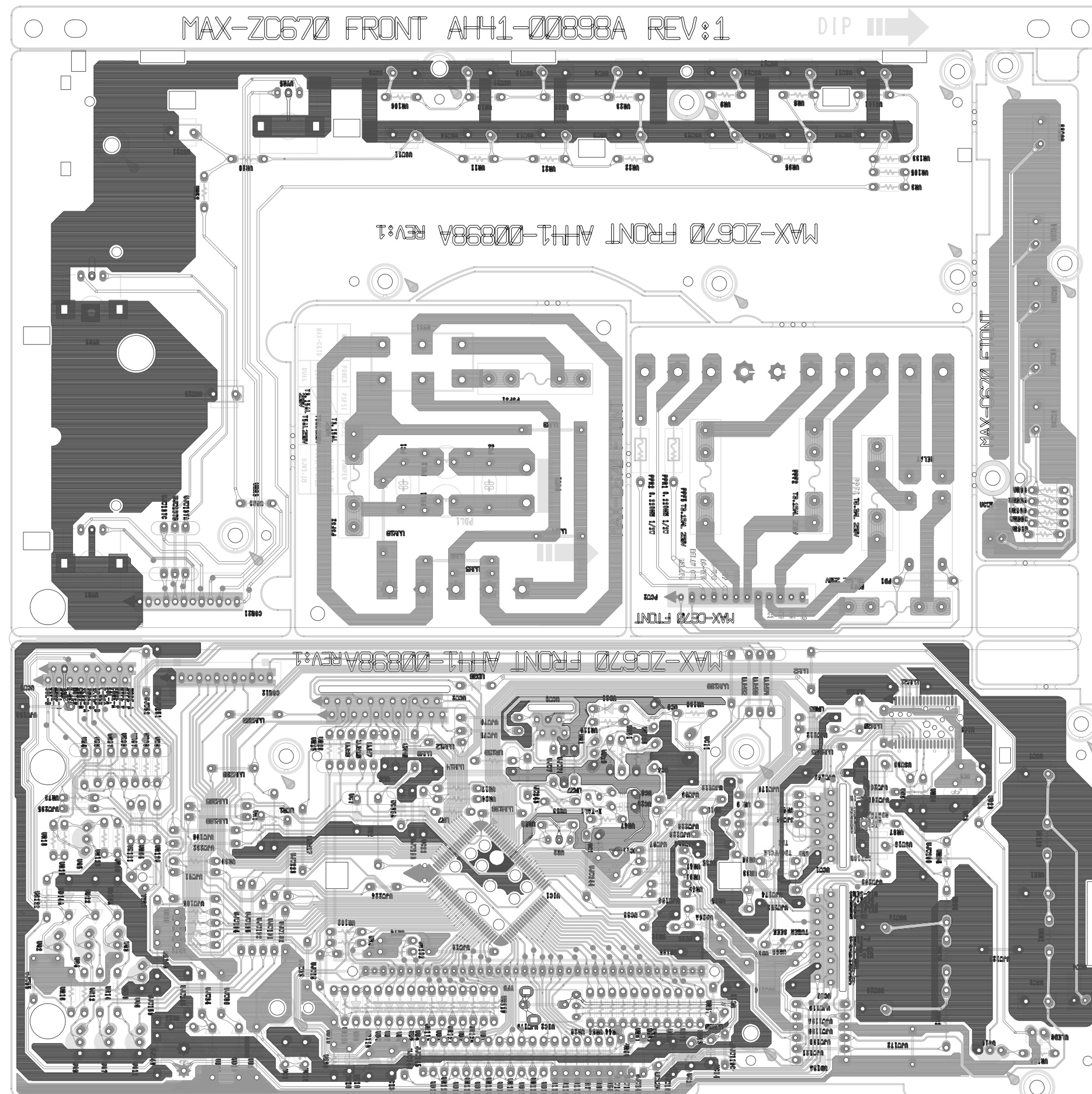
11. PCB Diagram

1. MAIN

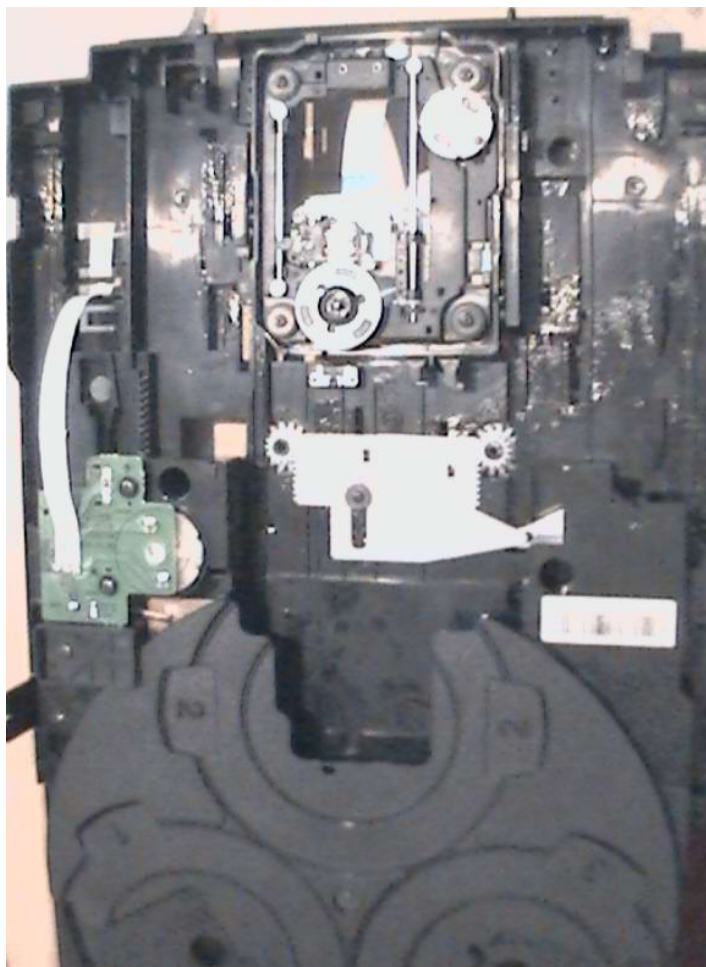





3. FRONT



Регулировка CD-механизма Samsung



The image shows the internal components of a device, likely a tape drive or a similar mechanical system. A green printed circuit board (PCB) is visible on the right side, featuring several electronic components and a white ribbon cable connected to it. The PCB is mounted on a black plastic frame. Below the PCB, there is a large white circular component, possibly a motor or a pulley. To the left of this component, there are two small yellow gears. The entire assembly is housed within a white plastic casing. The text at the bottom of the image provides instructions on how to operate the device.

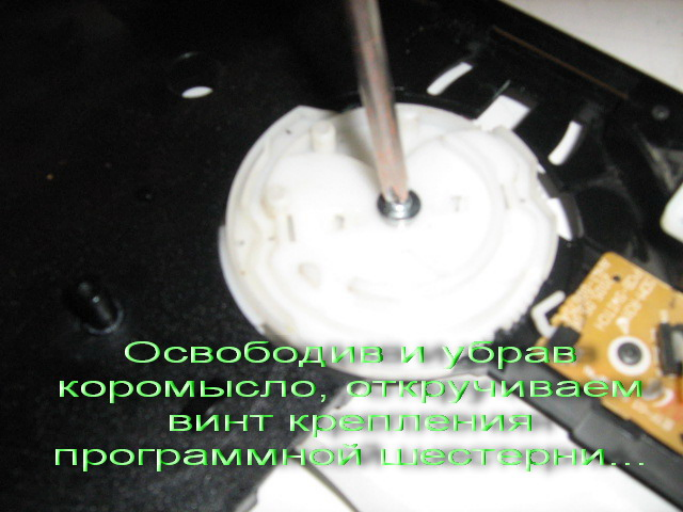
Отодвинуть лоток до упора и
нажав защелки по бокам,
выдвигать дальше до упора

A close-up photograph showing a person's hand using a black, T-shaped plastic tool to lift a white plastic tray. The tray is part of a larger white plastic assembly, which includes a gear and various other components. The background is a light-colored wooden surface.

Отжимаем край лотка,
освобождаем от упора и дальше
выдвигаем лоток.



Переворачиваем лоток. Поворачиваем программную шестерню так, чтобы освободить коромысло из канавок шестерни. Затем выводим один край коромысла на край направляющей и приподнимая край, освобождаем из фиксации в направляющей.



Освободив и убрав
коромысло, откручиваем
винт крепления
программной шестерни...



...извлекаем
программную шестерню.

A close-up photograph showing a person's hand using a thin metal tool to lift a latch from a tape drive mechanism. The device is black and has a white ribbon cable attached to the top. A small orange component is visible inside the mechanism. The text is overlaid in green at the bottom of the image.

Перевернув лоток,
освобождаем пассик от
шкива движка.....




...и снова перевернув
лоток, извлекаем
подпрограммную шестерню
вместе с пассиком.



Моем, протираем канавки шкива
движка и подпрограммной
шестерни. Пассик обязательно
заменить на новый, старый пассик
будет все равно проскальзывать.




Сборка. Надев пассик на подпрограммную шестерню, просовываем пассик не задев корпуса, во избежание попадания смазки на пассик и дальнейшего его проскальзывания.

A close-up photograph showing a white, circular gear with teeth being aligned and inserted into a black, textured housing. The gear is positioned in the center-right of the frame, with its teeth fitting into a corresponding slot in the housing. The background is dark and out of focus, showing some mechanical components and a yellow label on the right side.


Устанавливаем
подпрограммную шестерню на
место, совместив по
установочным местам....



...вот так. Ошибиться
невозможно.



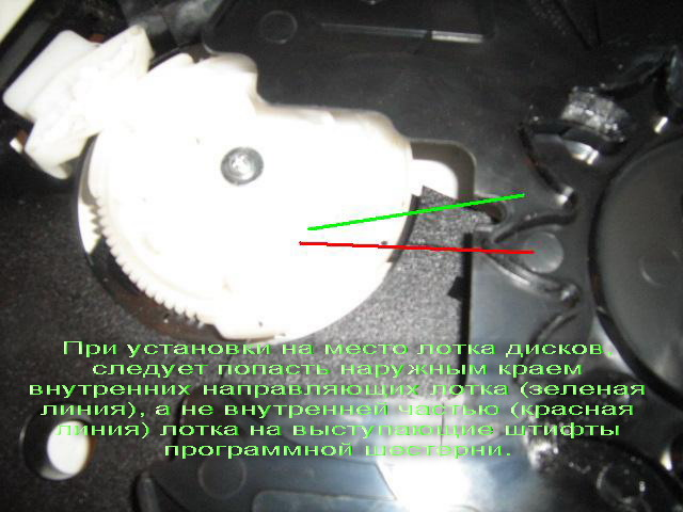
Закручиваем винт крепления
подпрограммной шестерни и
поворачиваем ее так, чтобы
вывести зону канавок из зоны
положения коромысла.

A close-up photograph of a mechanical assembly. In the center is a large, white, circular gear with a serrated outer edge. Above the gear is a white plastic bracket with a central circular hole and several rectangular slots. The entire assembly is mounted on a black base. To the right, a portion of a yellow printed circuit board (PCB) is visible, featuring a black electronic component. The background is a light-colored surface.


Устанавливаем коромысло
на место в направляющие.




Поворачиваем
подпрограммную шестерню
так, чтобы короткая область
канавки встала посередине
упора коромысла.



При установке на место лотка дисков, следует попасть наружным краем внутренних направляющих лотка (зеленая линия), а не внутренней частью (красная линия) лотка на выступающие штифты программной шестерни.

A close-up photograph of a mechanical assembly, likely a printer or copier. The main body is a white plastic frame. At the top, there is a black roller or drum. Below it, there are various mechanical components, including a small black gear and a white plastic lever or arm. The text is overlaid in green at the bottom of the image.

Перед установкой
лотка, убедиться, что
траверса опущена в
нижнее положение.



Устанавливаем лоток в направляющие и задвигаем сквозь защелки до упора штифта.



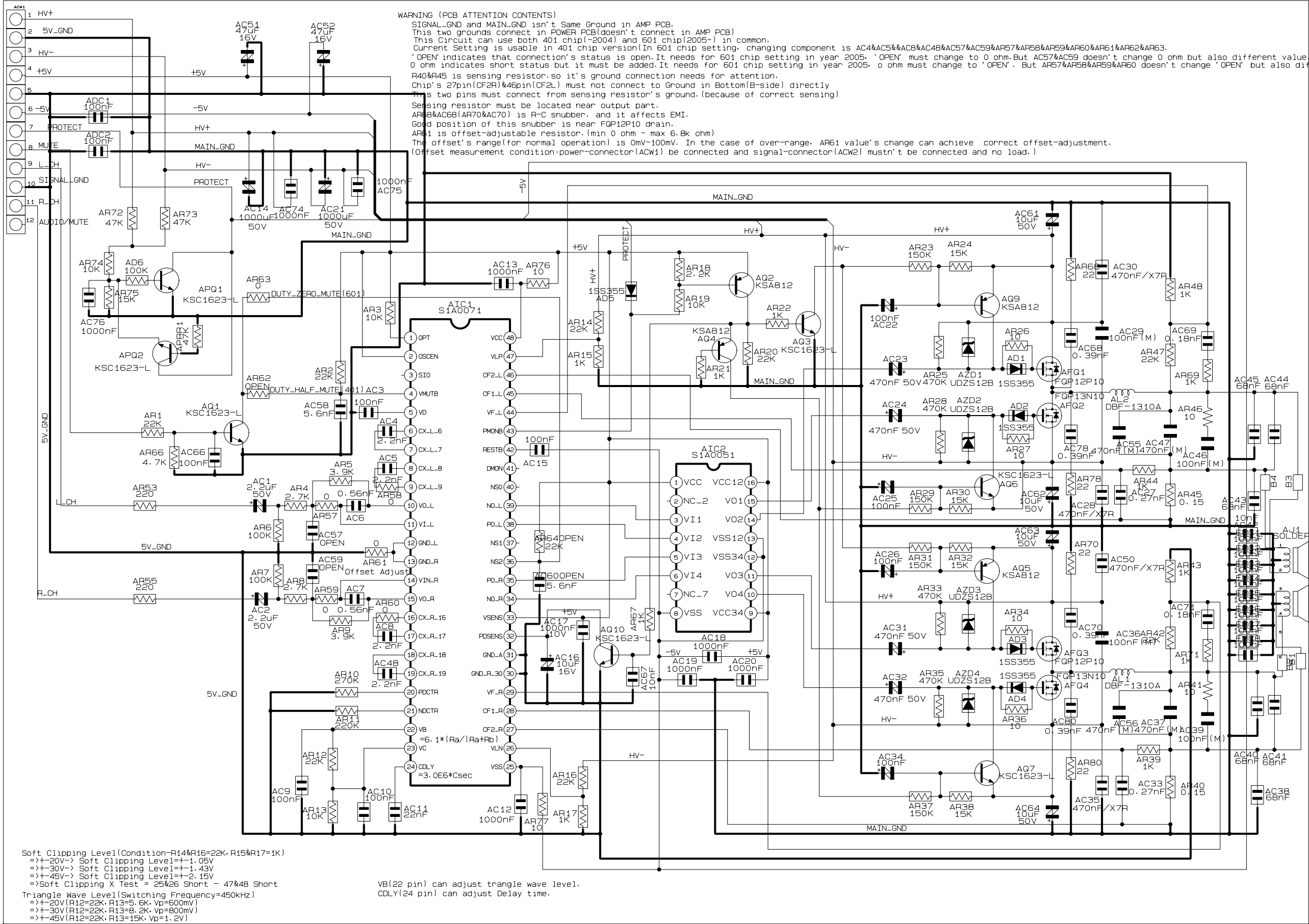
Как при разборке, отгибаем
край лотка заводя на
штифт и задвигаем
дальше...

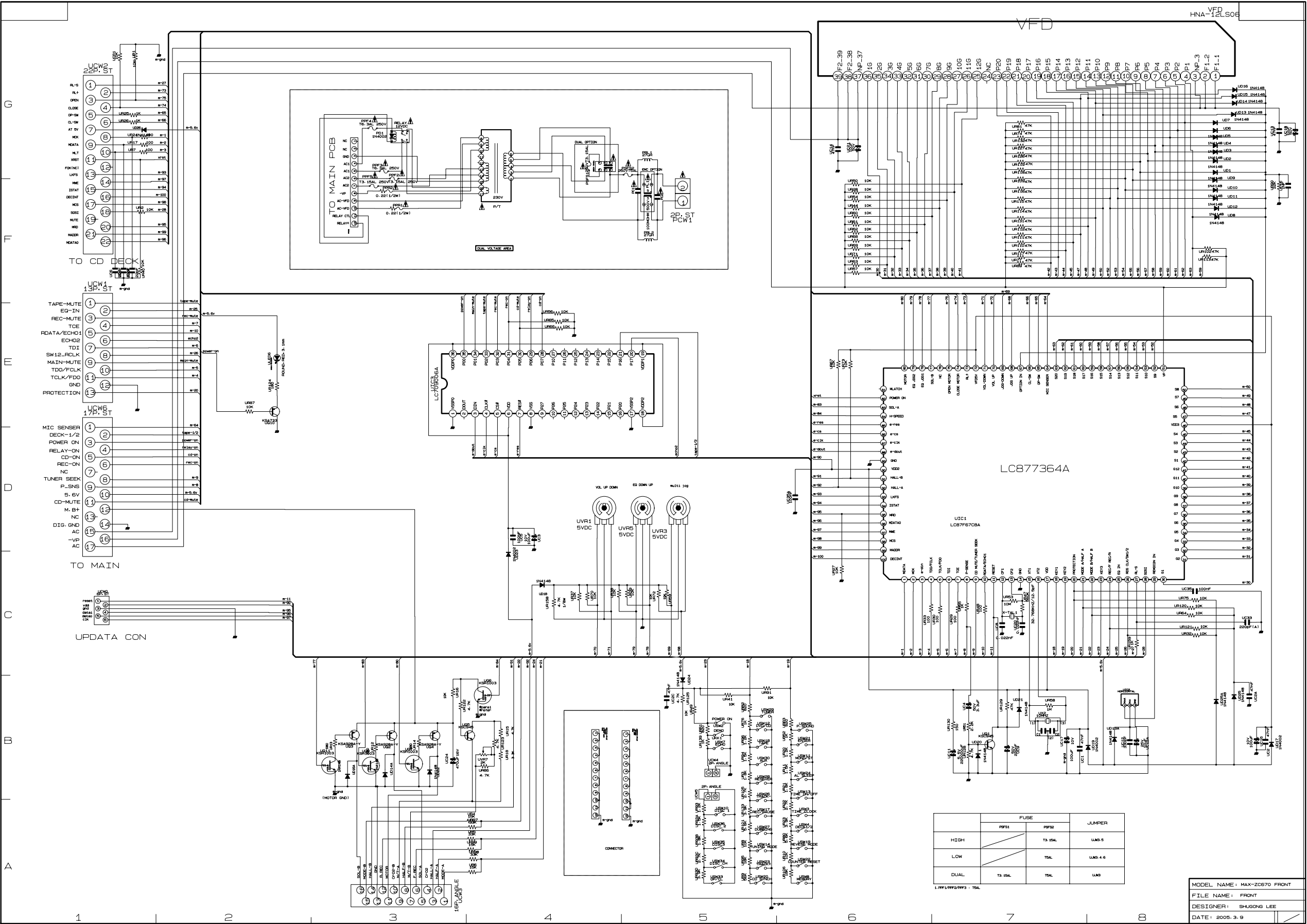


Задвигаем лоток до
конца. Все.

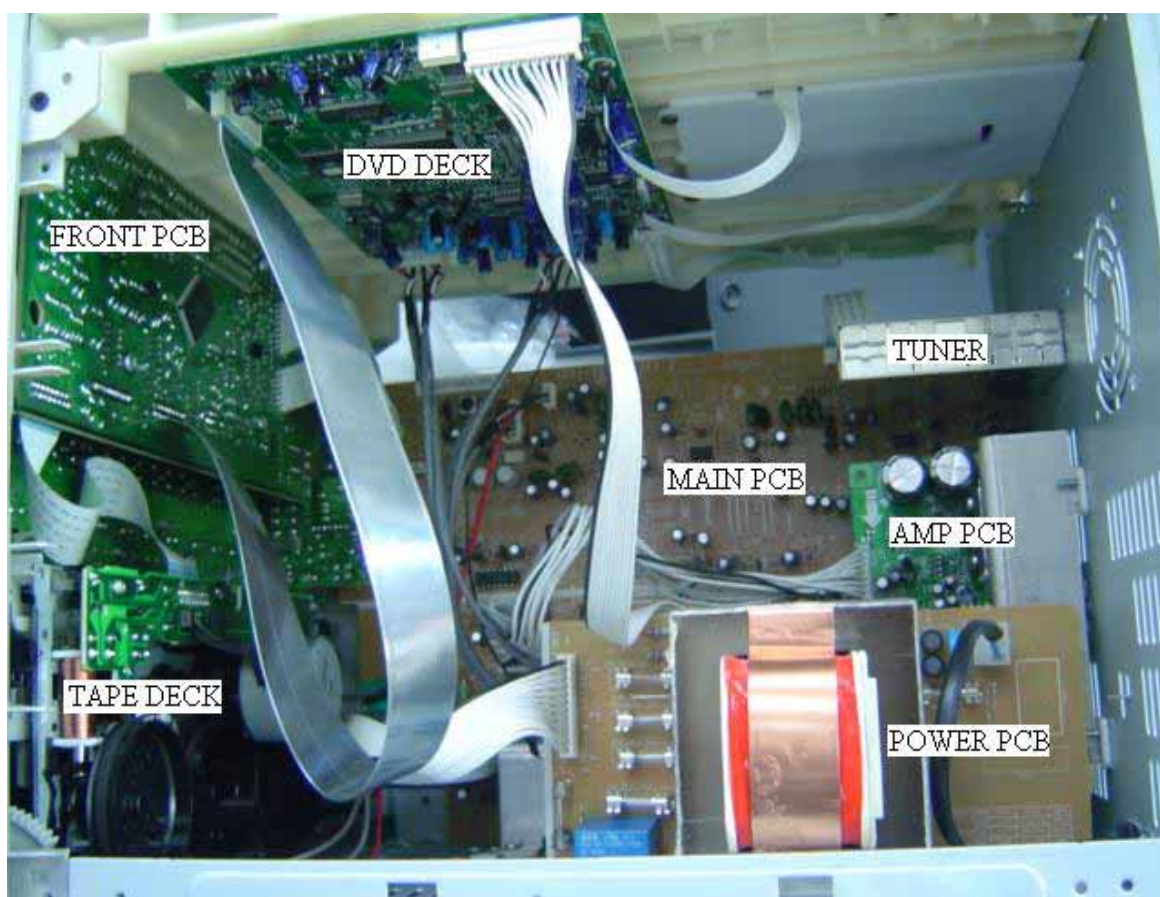
1-1. MAIN

Samsung Electronics





13. Circuit Board Description



BLOCK Div.	Main roles	Remarks
MAIN PCB	<p> ⬢ Main Operating Part - . Switch of four function in the function IC " BD3872FS". There are TUNER ,TAPE , DVD/VCD/CD/MP3 and AUX. - . $\pm 25V$ voltage from power pcb retifying tube(diode) is supplied to U-COM(5.6V),$\pm 5V$(Amplifer USED), the AUX,TUNER , TAPE,BD3872FS and all of OP AMPs - . 10V voltage from power pcb retifying tube(diode) is supplied to PIC1(KA78R05),PIC2(KA278R05)and PIC3(KA78R33) - . $\pm 38V$ voltage from power pcb retifying tube(diode) is supplied to the amp pcb for power-end used. </p> <p> ⬢ Power-sense voltage Approve operating voltage to front for aperation on power-sense voltage while AC-CORD is inserted in outlet(stand-by) </p>	

BLOCK Div.	Main roles	Remarks
FRONT PCB	<ul style="list-style-type: none"> ● FRONT PCB Part - . Take charge of control of front panel such as REMOCON operating /main unit KEY operating / HEADPHONE / MIC operating. ● OSCILLATION Circuit - . 10MHz Frequency oscillation circuit ● VOLUME Circuit - . Volume change during Power-ON and dimmer on /off 	

BLOCK Div.	Main roles	Remarks
POWER PCB	<ul style="list-style-type: none"> ● AC POWER Supply - . Power cord is inserted in outlet ,the AC Voltage is supply to Power Trans thout RFS1: T3.15AL 250V (High) or T5AL 250V(Low) - . $\pm 25V$ Voltage is supply to MAIN PCB through rectifier circuit PPF2,PPF5 - . 10V Voltage is supply to MAIN PCB through rectifier circuit PPF1 - . $\pm 38V$ Voltage is supply to MAIN PCB through rectifier circuit RELAY,PPF3,PPF4 ● Voltage to VFD - . Supply voltage: AC-VFD,AC-VFD and -VP to FRONT PCB VFD Display. 	

14. Reference

Cleaning Your Component System

To obtain the best possible results from your micro component system, you must clean the following elements regularly:

- ◆ The outer casing
- ◆ The compact disc player
- ◆ The cassette players (heads, rollers and drive capstans)
 - ☛ Always unplug the system from the wall outlet:
 - ◆ Before cleaning it
 - ◆ If you are not going to be using it for a long time

Outer Casing

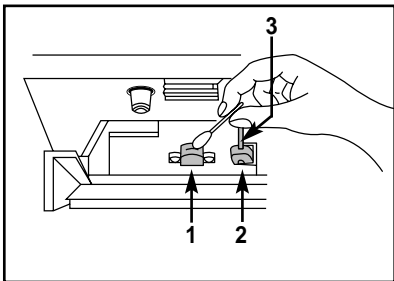
Clean the outer casing regularly using a soft cloth and a light detergent. Do not use abrasive powders, liquids or aerosol cleaners. Never let any liquids get into the system.

Compact Disc Player

- 1 Before playing a compact disc, clean it with a special CD cleaning agent. Do not use the same cleaning agents as for vinyl LP records. Carefully wipe the disc from the centre outward.
- 2 Regularly clean the player with a special cleaning disc (available from your local dealer).

Tape Decks

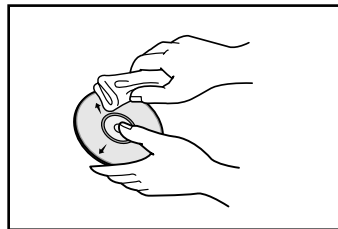
- 1 Press **Push Eject** (▲) to open the cassette deck.
- 2 Use a cotton bud and a special cassette cleaning agent to clean the:
 - ◆ Head (1)
 - ◆ Rollers (2)
 - ◆ Drive capstans (3)



- ☛ If you will not be using the remote control for a long time, remove the batteries to prevent corrosion.
- ◆ Although your system is very hard-wearing, it should not be used in an excessively dusty environment or subjected to shocks or extreme heat (close to heating appliances or in direct sunlight, etc.).
- ◆ If the unit emits an unpleasant odor when in use, unplug it from the main supply and contact the after-sales service.

Precautions When Using Compact Discs

- ◆ Handle your compact discs with care. Always hold them by the edges to avoid leaving fingerprints on the shiny surface.
- ◆ When you have finished playing a compact disc, always put it back in its case.
- ◆ Do not fix paper or adhesive tape to the discs and do not write on the label.
- ◆ Clean them with a special-purpose cloth.
- ◆ Store your compact discs in a clean place, out of direct sunlight, where they will not be exposed to high temperatures.
- ◆ Always use compact discs marked **DDIF**.



Precautions When Using Audio Cassettes

- ◆ Check that the tape in the cassette is sufficiently taut.
- ◆ To prevent erasing a cassette that you wish to keep, remove the safety tab on the upper edge of the cassette. To record a cassette, where the tab has been broken, simply cover the opening with adhesive tape.
- ◆ When you have finished playing a cassette, always put it back in its case.
- ◆ Store your cassettes in a clean place, out of direct sunlight, where they will not be exposed to high temperatures.
- ◆ Avoid using 120-minute cassettes as they place unnecessary strain on the tape mechanism.

